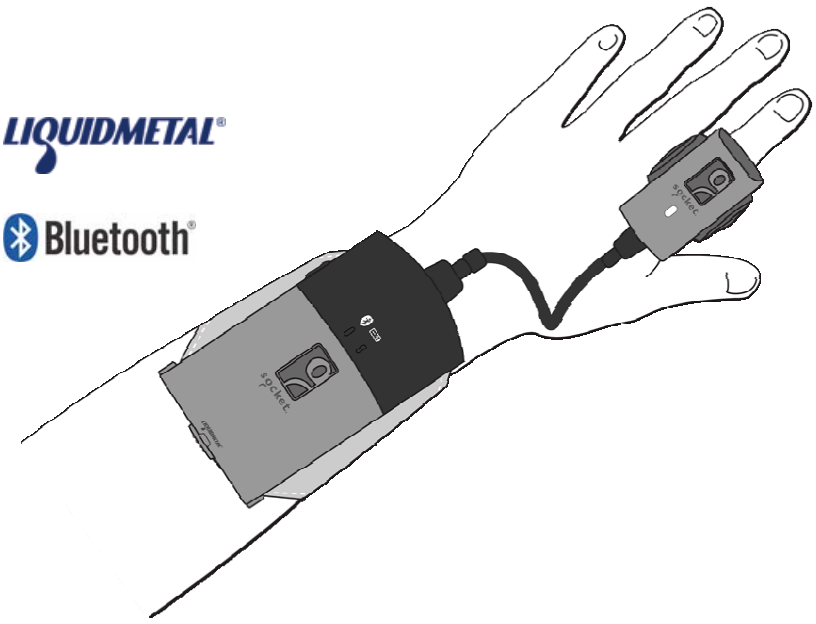
Cordless Ring Scanner Series 9
with *Bluetooth*® Wireless Technology

Wearable, "Hands-Free" bar code scanner for Bluetooth enabled computers running Windows Mobile, XP or XP Tablet Edition.

User's Guide



socket
Increasing Mobile Productivity

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USA

Other than the above, Socket Mobile can assume no responsibility for anything resulting from the application of information contained in this manual.

Please refrain from any applications of the Socket Mobile Cordless Ring Scanner that are not described in this manual. Please refrain from disassembling the Cordless Ring Scanner. Disassembly of this device will void the product warranty.

You can track new product releases, software updates and technical bulletins by visiting the Socket Mobile website at: www.socketmobile.com.

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1 | INTRODUCTION

If you need to collect bar coded data but don't want to be tied to your mobile or desktop computer, the Socket Mobile Cordless Ring Scanner (CRS) Series 9 with *Bluetooth* wireless technology is just what you're looking for. This innovative device combines the power of laser bar code scanning with the convenience of *Bluetooth* wireless technology in a compact, lightweight device that is ergonomically designed to fit comfortably on your hand.

Bluetooth wireless technology transforms how devices connect with each other, offering new possibilities for using a mobile computer with other devices. With the CRS, you can scan bar codes while connected to a PDA in your pocket or a Windows XP system located up to 300 feet away — all without the hassle of cables or the awkwardness of a protruding antenna.

The CRS was designed with an exclusive Liquidmetal® construction that is twice as strong as titanium, extremely durable and scratch-resistant. The Battery Friendly® CRS uses minimal power, so you can scan over 11,000 times in normal operating conditions without having to recharge.

SCANNER VERSIONS

The CRS Series 9 includes two versions of the scanner, The Mid-range CRS 9M has a Class 1 laser scanner and a Class 2 Bluetooth with a maximum range of 30ft (10m). The Performance CRS 9P features a Class 2 laser scanner with a Class 1 Bluetooth with a maximum range of 300ft (10m).

ABOUT THE SOFTWARE

SocketScan™ enters scanned data directly into any open Windows program, as if the data were manually typed, so you can use the CRS with your favorite application. Included is a utility that enables you to configure Prefix/Suffixes, sounds, and other special settings for the CRS.

SocketScan

Connect!Agent™ (patent pending) simplifies the *Bluetooth* by automatically setting up and managing the *Bluetooth* connection. Connect!Agent runs in the background, requiring no user interaction.

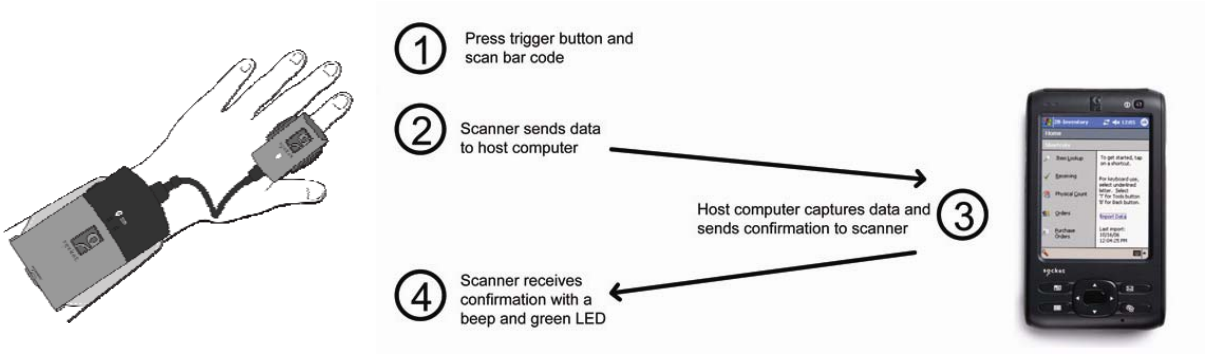
ActivePairing™ for Windows XP enables you to conveniently connect and disconnect from the host computer by scanning a special bar code.

For software updates, please visit:
www.socketmobile.com/support/downloads/data-collection/series9/

ABOUT COMBINING SCANNING WITH *BLUETOOTH*

The Cordless Ring Scanner represents an optimal combination of proven laser bar code scanning technology and state-of-the-art *Bluetooth* connectivity. Because of the problems inherent in the intermittent storage of scanned data in on-board memory if the *Bluetooth* connection is lost, the CRS is designed to operate only when connected to the host, with the powerful Class 1 radio providing the maximum possible connection range.

The user is advised of the connection status with a single beep when the CRS connects to the host and a double beep when the connection is closed or lost. As with any wireless device, connectivity range can be affected by a variety of environmental variables.


1
Press trigger button and scan bar code
2
Scanner sends data to host computer
Host computer captures data and sends confirmation to scanner
3
4
Scanner receives confirmation with a beep and green LED

The most likely source of errors in any cordless scanning system is not in the scanning and decoding process, but in the transmission of the data to the host. To prevent such errors, the Cordless Ring Scanner features the Socket Mobile exclusive *Error Proof Protocol*™ (patent pending), which ensures that scanned data is correctly received by the host computer and allows for real-time validation of data and notification to the user in case of errors.

The beeper and green LED signals provided by the CRS confirm not only a successful scan but also the successful transmission of the scanned data to the host. Users familiar with bar code scanning may notice a slight delay between the successful scan and shut off of the laser, and the beep and green LED from the CRS confirming completed transmission of the data. In most instances, this delay is less than 300 ms (milliseconds), but may be slightly longer as the connectivity range limit is approached.

Because of the two-way transmission verification process, it is possible to cause communication problems by scanning bar codes as fast as possible. When this occurs, all transmissions will stop for several seconds before scanning can be resumed. To prevent this from happening, the user should wait until the confirming beep is received before scanning the next bar code.

SYSTEM REQUIREMENTS

Windows Mobile devices should satisfy these minimum requirements:

- Windows Mobile 2003, 2003SE or 5.0
- Any of the following *Bluetooth* stacks:*
  - Broadcom (Widcomm) v1.5 or greater for Windows Mobile 2003/2003SE
  - Broadcom (Widcomm) v1.7 or greater for Windows Mobile 5.0
  - Microsoft *Bluetooth* stack for Windows Mobile
  - Socket Mobile Drakar v1.4 (from Socket SD/CF Connection Kits)
- Software installation requires ActiveSync 4.0 or greater or Windows Vista.

The CRS Series 9 is also compatible with the Intermec CK30, which runs Windows CE.NET.

Windows XP computers should satisfy these minimum requirements:

- Windows Mobile XP or XP Tablet Edition
- Any of the following *Bluetooth* stacks:*
  - IVT BlueSoleil version 1.6.1.4
  - Microsoft Windows XP Service Pack 2 *Bluetooth* stack
  - Toshiba *Bluetooth* stack 3.0 or greater
  - Broadcom (Widcomm) *Bluetooth* stack

**OtherBluetooth stacks may be compatible but have not been tested by Socket Mobile. Connect!Agent is only compatible wit the IVT, Microsoft and Toshiba Bluetooth stacks. ActivePairing is only compatible with the Microsoft Bluetooth stack.*

PACKAGE CONTENTS

The Socket Cordless Ring Scanner package includes:

- Ring scanner (C)
- Wrist unit (A) with attached cable (B)
- Wrist unit case (D)
- Finger strap (F)
- 2 adhesive Velcro strips (G)
- Rechargeable 3.7V lithium-ion battery
- Battery charger
- CD with software and user documentation

PRODUCT REGISTRATION

Socket Mobile highly recommends that all customers register their Socket Mobile products. Registered users receive the following benefits:

- Priority for technical support
- Special offers for future products and upgrades
- The latest new product information.

Register online at: www.socketmobile.com/support/support/new

ADDITIONAL DOCUMENTATION

Besides this User's Guide, Socket Mobile also supports the Cordless Ring Scanner Series 9 with Quick Start Guides and Advanced Programming Guides, available online at:
www.socketmobile.com/support/downloads/data-collection/series9/?page=Detail

HARDWARE AND SOFTWARE INDICATORS

Ring Scanner LED

LED	LED Activity	Meaning
Good Read	Green	Data successfully scanned and sent to host device

Wrist Unit LEDs

LED	LED Activity	Meaning
Bluetooth Status	Blinking blue every second	*Bluetooth* radio is on, no connection
	Blinking blue, every 5 seconds	*Bluetooth* connection
Battery Status	Blinking Red	20% battery capacity remaining
	Solid Red	10% battery capacity remaining
	Off	Off or Good Battery status

Wrist Unit Beeps

Beep Pattern	Meaning
1 beep	*Bluetooth* connection to host device has begun or power on
2 beeps	*Bluetooth* connection to host device has ended or power off
1 beep (optional setting)	Data successfully scanned and sent to host device
3 beeps	Cable disconnected from wrist unit

SocketScan Icon

For Windows Mobile, the icon is located at the bottom of Today screen when SocketScan is open. Tap for menu.

For Windows XP, the icon is located in the task tray at the bottom of the screen.

Icon	Meaning
	The CRS is not connected to the host device
	The CRS is connected to the host device

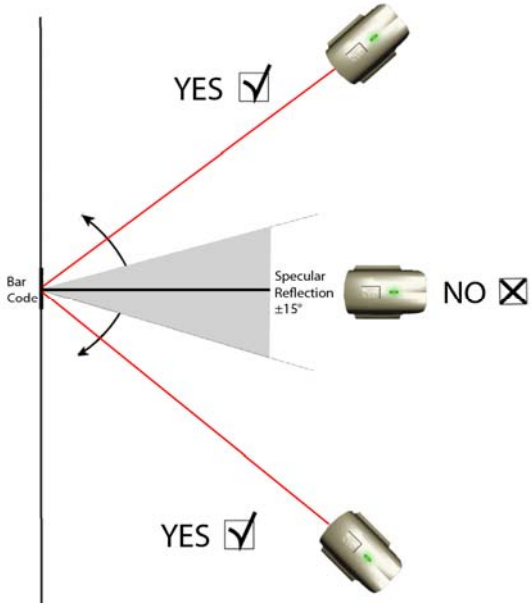
In SocketScan, the abbreviation "CS" stands for "cordless scanner" and applies to both the Socket Mobile Cordless Ring Scanner and Socket Mobile Cordless Hand Scanner.

SCANNING TIPS

Practice to determine the best scanning angle and distance for your type of bar code.

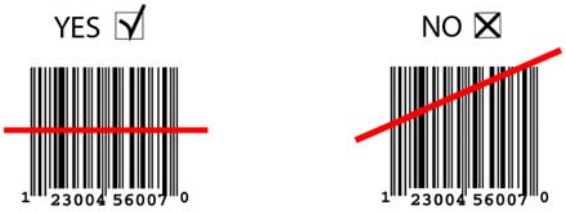
Scan Angle

For best results, position the scanner at an angle to the bar code, at least 15° from perpendicular. Otherwise, light can bounce back into the scanner and "blind" the sensing mechanism.



Aiming Beam

Aim the laser so that the red beam covers the entire width of the bar code.

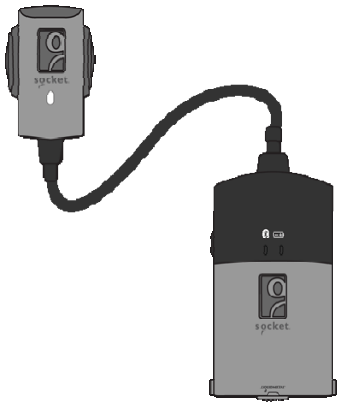


Scanning Distance

- The optimal scanning distance varies depending on the bar code size, symbology, label media, W-N Ratio, and scan angle. In general, the CRS 9M can successfully scan 1.0 to 30+ inches from the bar code, and the CRS 9P can successfully scan 1.0 to 40+ inches from the bar code.
- The larger the bar code, the further away you should position the scanner.
- The tighter the bars of the bar code, the closer you should position the scanner.

ABOUT THE CABLE BREAK AWAY

The CRS is designed to break away from the hand if subjected to unusual force. This break away feature is designed to reduce the possibility or extent of injury to the body in the event the CRS becomes entangled in industrial equipment.



If the cable breaks away from the ring scanner unit during use, simply plug it back in to resume operation.

Note: Whenever the cable disconnects from the ring scanner, it will beep 3 times.

2 | HARDWARE PREPARATION

CHARGING AND INSTALLING THE BATTERY

1. The battery must be charged before initial use, using the included Socket charger. The Charging LED will be yellow during charging. After approximately 4 hours, the battery will reach full charge, indicated by a green Charging LED.

   Do not use the charger with other types of batteries. A fully charged battery should provide at least 10,000 scans and more than 8 hours of operation.

Battery Charger LEDs

LED	LED Activity	Meaning
Power	Red	Plugged into valid power source
Charging	Yellow	Charging
	Green	Battery is fully charged

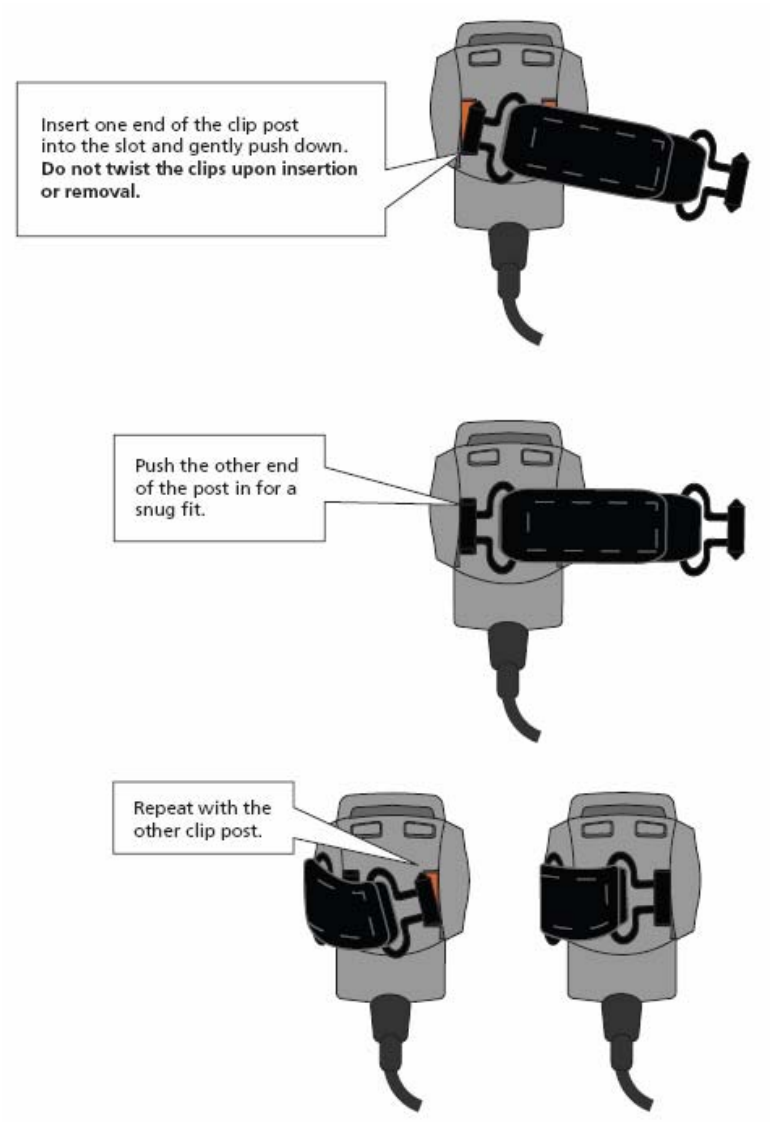
You can also check the battery level by checking the CS HW screen of the SocketScan settings utility. The utility will report the battery level only when the CRS is connected to your mobile computer.

2. Slide the switch at the bottom of the wrist unit to unlock the battery door. Insert the battery so that the battery contacts align with the contacts inside the wrist unit, then close and lock the battery door.

WARNING: Do not insert the battery backwards or upside-down. Damage may result.

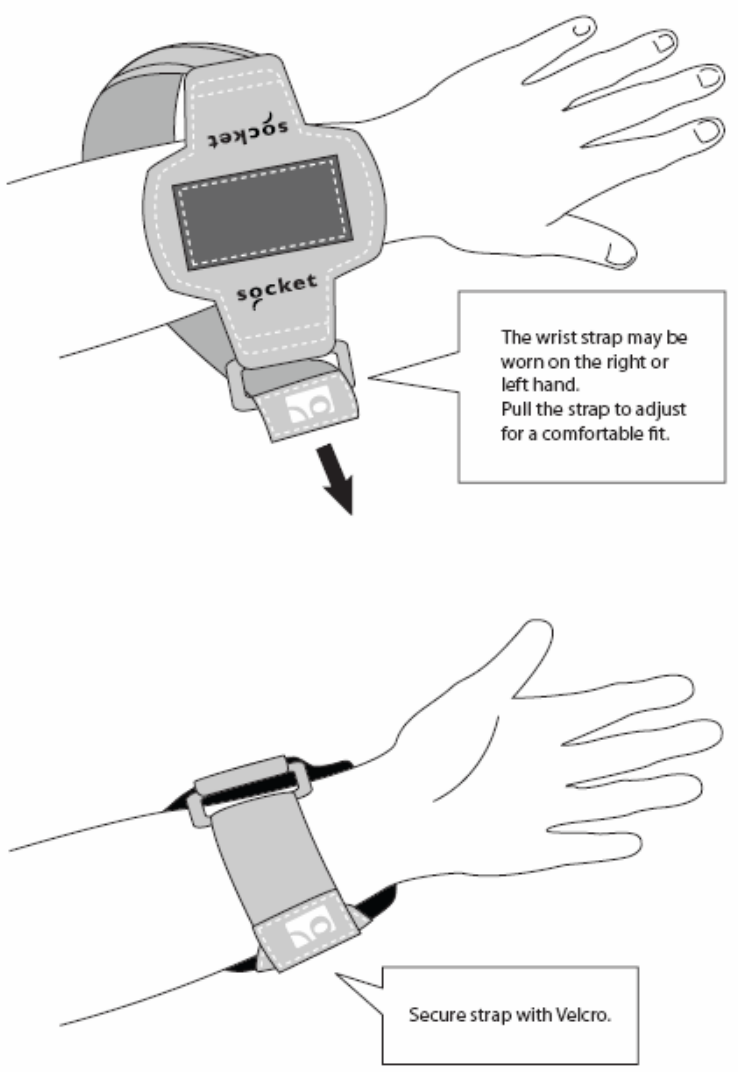
ASSEMBLING AND PUTTING ON THE CRS

Attaching the Finger Strap to the Ring Scanner

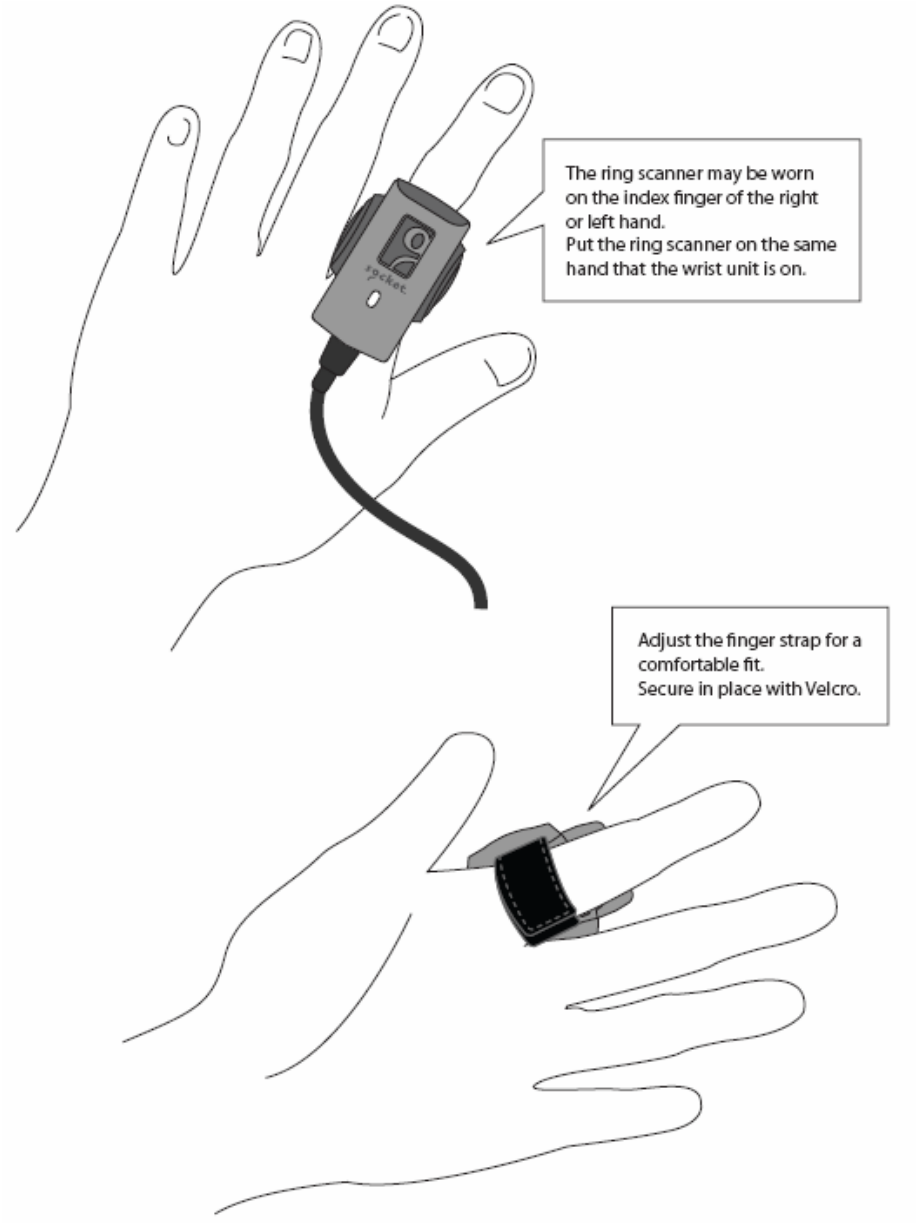

Insert one end of the clip post into the slot and gently push down. **Do not twist the clips upon insertion or removal.**
Push the other end of the post in for a snug fit.
Repeat with the other clip post.

Note: To remove the finger strap, grasp the clips with the thumb and index finger then pull one side of the clip out and remove.

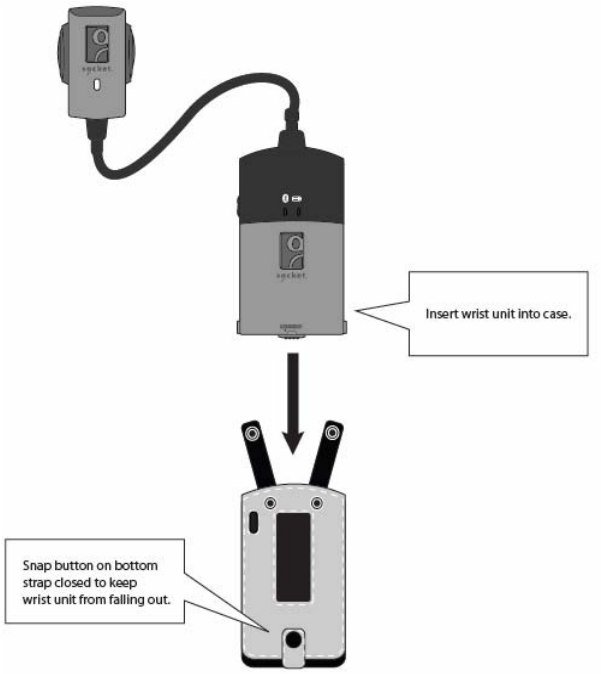
Putting on the Wrist Strap


socket
socket
The wrist strap may be worn on the right or left hand.
Pull the strap to adjust for a comfortable fit.
Secure strap with Velcro.

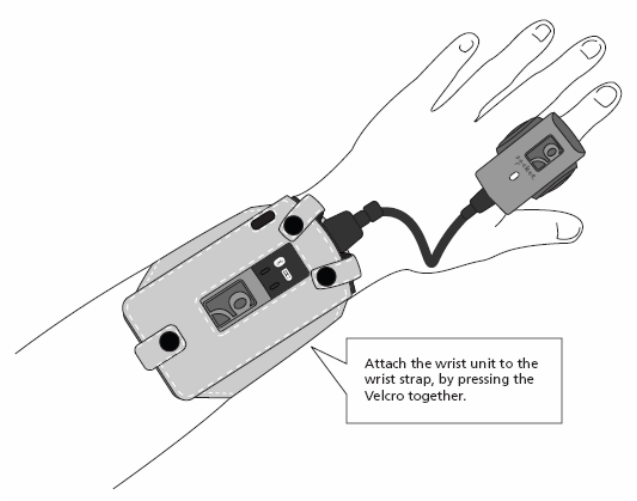
Putting on the Ring Scanner


The ring scanner may be worn on the index finger of the right or left hand.
Put the ring scanner on the same hand that the wrist unit is on.
Adjust the finger strap for a comfortable fit.
Secure in place with Velcro.

Using the CRS with the Wrist Case

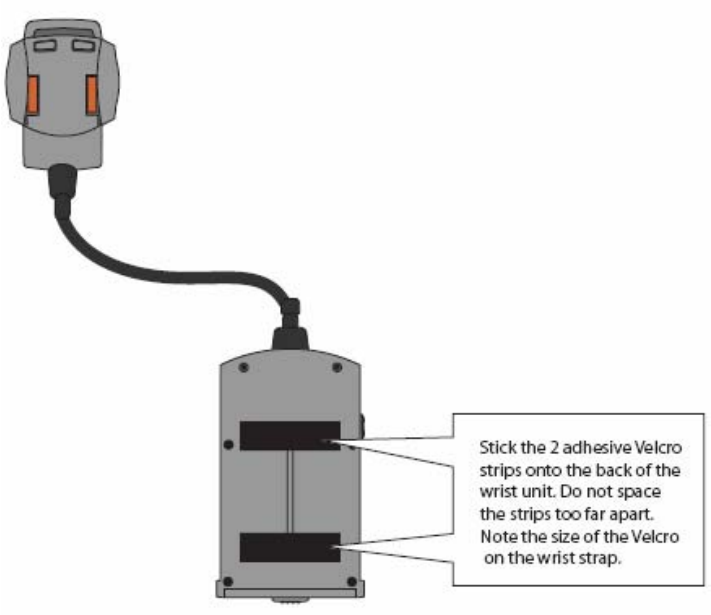


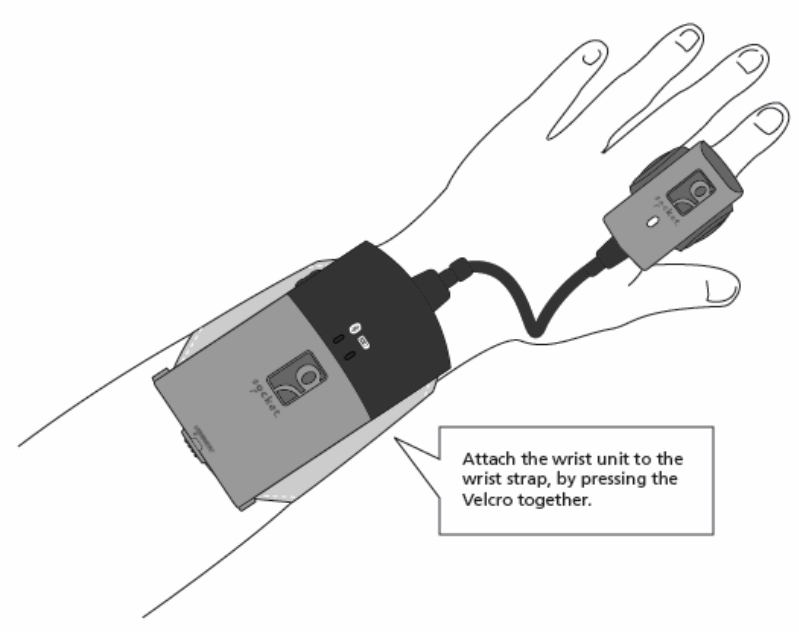
Note: During insertion, you may hear a beep and see the LED flicker because the power button was pressed, however, the wrist unit will not turn on unless the button was pressed for more than 2 seconds, and the LED continues to blink.



Using the CRS without the Wrist Case

Note: Using the CRS without the wrist case makes it more susceptible to damage.


Stick the 2 adhesive Velcro strips onto the back of the wrist unit. Do not space the strips too far apart. Note the size of the Velcro on the wrist strap.



3 | SETUP FOR WINDOWS MOBILE

This chapter explains how to install and use the Cordless Ring Scanner (CRS) with a *Bluetooth* enabled Pocket PC or other Windows Mobile-based device.

Before you begin the instructions in this chapter, make sure you have charged and installed the battery as explained in Chapter 2, "Hardware Preparation."

SETUP SUMMARY

STEP 1: Install the software.*
STEP 2: Configure scanner settings.
STEP 3: Connect CRS to host device with *Bluetooth*.
STEP 4: Assemble and put on the CRS.
STEP 5: Scan data into your application.

Application Features

Selecting symbologies.
Configuring prefix/suffixes.
Configuring sound.
Running Scan Demo.
Using the Connect!Agent utility

**Software installation is not required for the SoMo 650. However, you may want to update the SocketScan or Connect!Agent software if a more recent version is available.*

STEP 1: INSTALL THE SOFTWARE

Note: If you are using the SoMo 650, software installation is not necessary. SocketScan and Connect!Agent are both pre-loaded on the device.

IMPORTANT! If you are not using the SoMo 650, you must install both SocketScan and Connect!Agent software!

ADVANCED USERS: Refer to the README file for CAB installation instructions.

1. Delete any bar code scanning software already installed in your device, including previous versions of SocketScan. Make sure the software is closed. Tap Start | Settings | System tab | Remove Programs. Use the utility to delete the software.

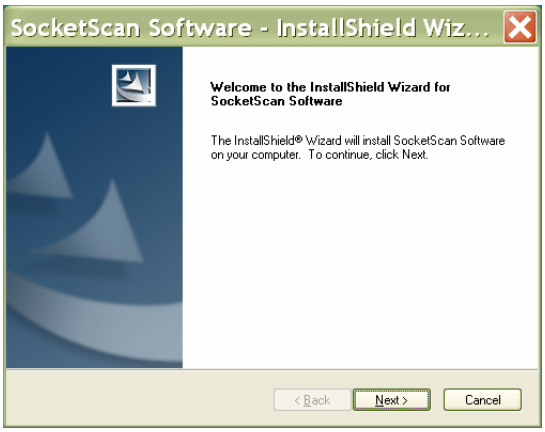
2. Make an active connection between the mobile computer and a host PC.
   - If your host PC runs Windows XP, use ActiveSync 4.0 or greater. You can download ActiveSync free from: www.socketmobile.com/activesync
   - If your host PC runs Windows Vista, use the Windows Mobile Device Center built into Windows Vista.

3. Insert the installation CD into your host PC.

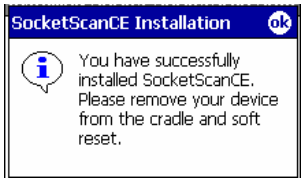
4. Use My Computer or Windows Explorer to access your CD drive.

5. In the CD contents, open the SocketScanCE folder and click on Setup.exe.

6. The installation wizard will automatically begin. Follow the wizard to install the software.


SocketScan Software - InstallShield Wiz...
Welcome to the InstallShield Wizard for SocketScan Software
The InstallShield® Wizard will install SocketScan Software on your computer. To continue, click Next.
< Back
Next >
Cancel

7. After installing the software, a dialog on your Pocket PC will direct you to soft reset. Tap ok.


SocketScanCE Installation
ok
You have successfully installed SocketScanCE. Please remove your device from the cradle and soft reset.

8. Remove your device from the cable/cradle and perform a soft reset by pressing the reset button.

   If you do not soft reset, some icons may not appear correctly.

9. Install Connect!Agent by opening the Connect!Agent folder in the CD and clicking on Connect!AgentSetup.exe. Follow the wizard to install the software.

STEP 2: CONFIGURE SCANNER SETTINGS

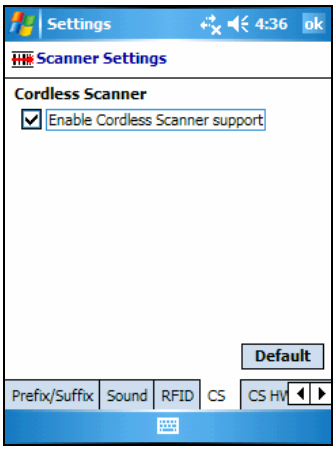
1. Tap Start | Programs | SocketScan.

2. Go to the Today screen by tapping Start | Today.

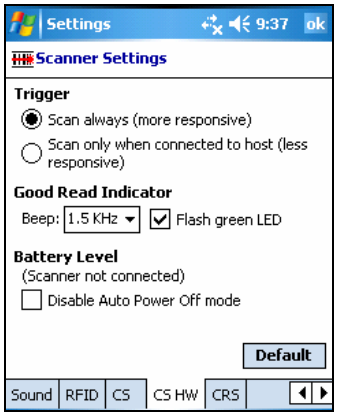
3. Tap the SocketScan icon at the bottom of the screen. In the pop-up menu, tap Settings.

4. The Scanner Settings utility will appear. Tap on the CS tab at the bottom of the screen.

5. Check the box Enable Cordless Scanner support. IMPORTANT!!!



6. Tap on the CS HW tab. Enter the following settings:



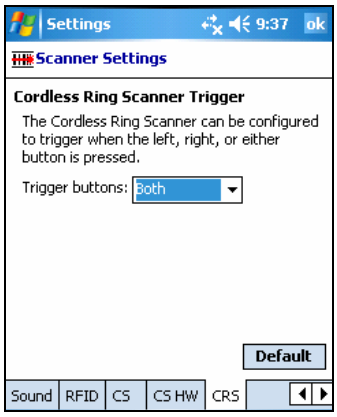
- Trigger: Select whether you would like the CRS to scan only when a *Bluetooth* connection to the device is detected. If you require the CRS to detect a *Bluetooth* connection before each scan, scanning will be a few milliseconds slower.

- Good Read Indicator: Select how you would like the CRS to indicate that it has successfully read data.

- Battery Level: No progress bar should appear since you are not connected to the CRS.

- Disable Auto Power Off mode: The CRS automatically shuts off if there is no *Bluetooth* connection for 20 minutes. Check to disable.

7. Tap on the CRS tab. Select which button on the CRS you would like to use to trigger the scanner.



8. After entering settings, tap ok to save the changes.

STEP 3: CONNECT CRS TO HOST DEVICE WITH *BLUETOOTH*

1. Turn on the Cordless Ring Scanner. Press the small power button on the side of the wrist unit for at least 2 seconds, until you hear a beep. The *Bluetooth* status LED on the wrist unit should be blinking blue.

2. Tap Start | Programs | SocketScan.

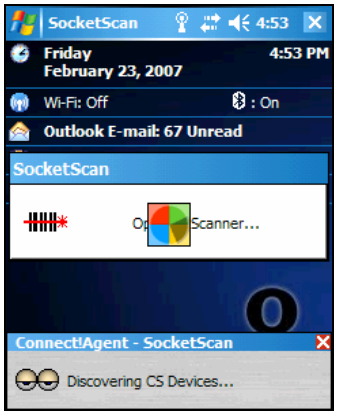
   Disregard the icons for Socket Trigger RFID, Socket Trigger Scan, and Socket Trigger Select.

3. Tap on the SocketScan icon at the bottom of the screen. In the pop-up menu, tap Connect CS.

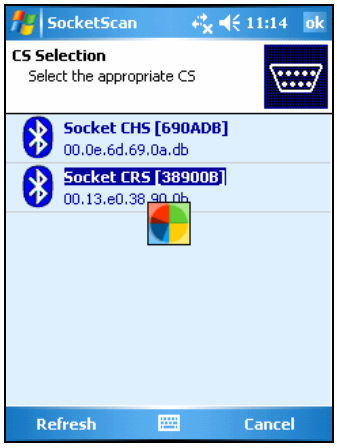
   Your mobile device cannot connect to the CRS if another device is set as the default Bluetooth serial device.

   If Connect CS does not appear, tap Settings in the menu, tap on the CS tab, and enable cordless scanner support.

4. Connect!Agent will automatically turn on the *Bluetooth* radio and begin to search for and connect to the CRS.
   - If this is your first time connecting to a CRS or CHS (Cordless Hand Scanner) from this device, Connect!Agent will begin searching for any CRS or CHS in range.
   - If you have previously connected to a CRS or CHS, Connect!Agent will automatically begin searching for your favorite (default) device.



5. If Connect!Agent does not have a favorite scanner and finds multiple CRS and/or CHS devices in range, select the one you want and tap ok.



To help you identify the scanner, Connect!Agent reports the scanner's Bluetooth MAC address. The last six characters are shown in brackets.

6. Connect!Agent will begin connecting to the CRS.

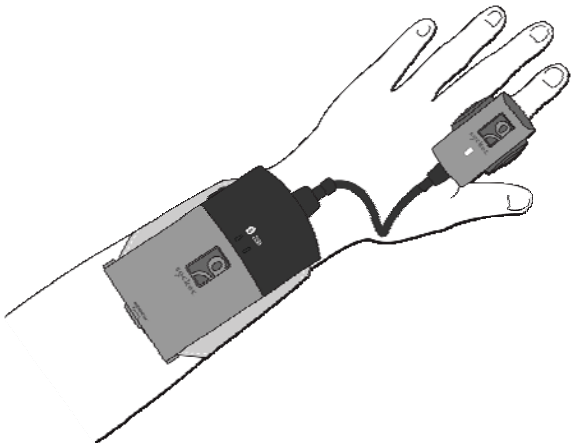
7. When connected, the CRS will beep once to indicate the connection. The SocketScan icon at the bottom of the Today screen will also change into a ring icon to indicate the connection.

Connect!Agent will save information about the CRS to automate future connections to your specific unit.

To change which scanner is assigned as your favorite, use the Connect!Agent utility. (See instructions later in this chapter.)

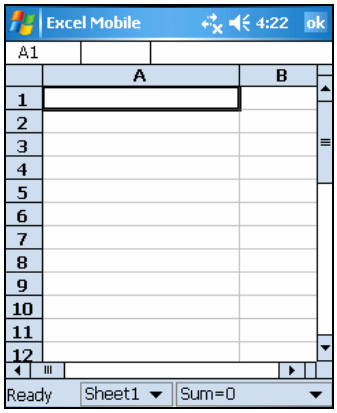
STEP 4: ASSEMBLE AND PUT ON THE CRS

Please refer to the instructions in Chapter 2.



STEP 5: SCAN DATA INTO YOUR APPLICATION

1. Start the Windows application that you want to enter scanned data into (e.g., Excel, Notepad, etc.). Make sure a document or spreadsheet is open.



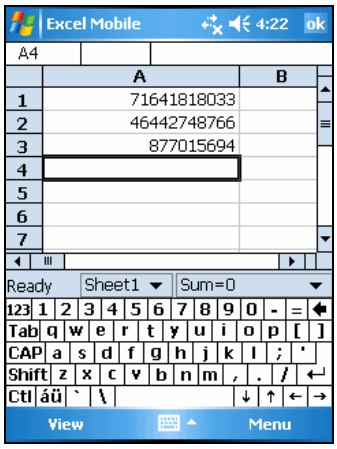
2. Place the cursor where you want data from the next scan to go. If using Excel Mobile, you may want to increase the width of the column to fit all of the data from a bar code.

3. Press the trigger button and aim your finger at the bar code. The red laser beam should cover the entire width of the bar code. See Chapter 1 for scanning tips.

When data is read and sent to the mobile computing device, the laser will turn off. Depending on your scanner settings, the scanner may beep and/or the ring scanner's LED may flash green to indicate a good read.

If no data is read in a few seconds, the laser will turn off, and you must try again.

4. After a successful scan, data should appear in your document. By default, the cursor automatically advances to the next cell or line, ready for the next scan.



Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.

SocketScan Auto-Reconnect

If your mobile device suspends or the CRS moves out of range, the *Bluetooth* connection will end. After the mobile device turns on again or returns in range, SocketScan will try to re-connect for approximately 3 minutes. If, after 3 minutes, they have not re-connected, you will need to manually re-connect them.

DISCONNECTING THE CRS FROM THE MOBILE COMPUTER

To disconnect, tap on the SocketScan icon at the bottom of the Today screen and tap Disconnect*. Your mobile device will disconnect from the CRS, and Connect!Agent will turn off the Bluetooth radio of your mobile device.*

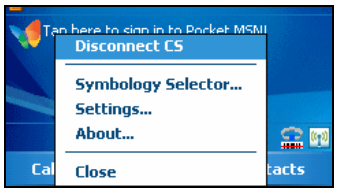
Turning off the CRS

To turn off the CRS, press the power button on the wrist unit for at least 2 seconds, until you hear 2 beeps.

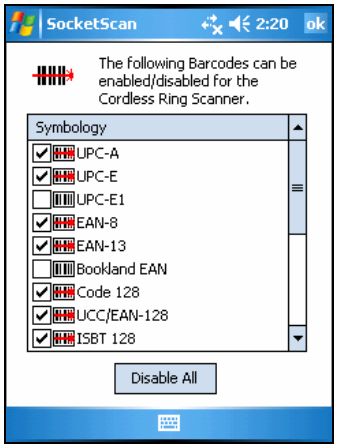
SELECTING SYMBOLOGIES

The applet makes it quick and convenient to modify which symbologies you want the scanner to recognize. By default, the scanner is set to recognize nine of the most common symbologies.

1. Tap on the SocketScan icon. In the pop-up menu, tap Symbology Selector...



2. In the screen that appears, check the symbologies you wish to enable. Uncheck those you wish to disable. For convenience, you can tap Disable All to disable all the symbologies and select the ones you want. Tap ok.



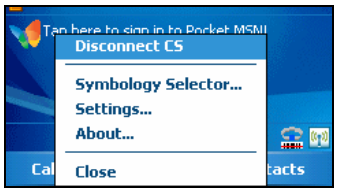
TIP *Symbologies not supported by the CRS will be gray. Enabling all possible symbologies will make the decode process slightly longer.*

CONFIGURING PREFIXES/SUFFIXES

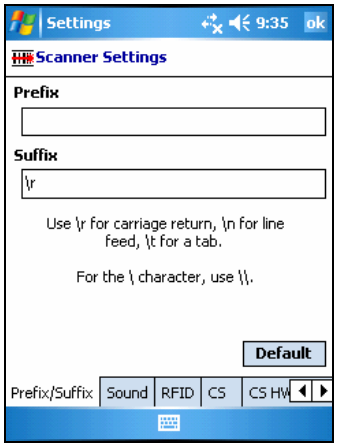
The SocketScan applet lets you specify prefix and/or suffix characters to be added automatically to the data you scan. This helps to further eliminate manual data entry.

1. Tap on the SocketScan icon. In the pop-up menu, tap Settings.

You can configure prefix/suffixes whether or not the CRS is connected to your Pocket PC.



2. The Scanner Settings utility will appear, with the Prefix/Suffix tab open. Enter the characters you want to be appended to each scan (128 character maximum). Tap ok.



By default, SocketScan enters a carriage return after every data scan.

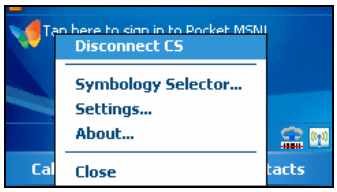
- *Use \r for Carriage Return, \n for Linefeed, \t for Tab., \\ for a single \ character.*
- *Other characters can be typed or entered using the format \nnn, where nnn = ASCII character 001 through 255.*

CONFIGURING SOUNDS

The SocketScan applet lets you specify sounds used to indicate when the CRS has successfully scanned data and transmitted it to the host device.

1. Tap on the SocketScan icon. In the pop-up menu, tap Settings.

   TIP *You can configure sounds whether or not the CRS is connected to your Pocket PC.*

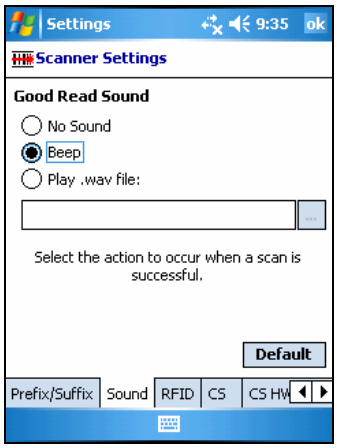


2. The Scanner Settings utility will appear, with the Prefix/Suffix tab open. Tap on the Sound tab.

3. Select which sound you want your mobile computer to use to indicate a good read.

   If you select Play .wav file, tap on the ... button to search for the .wav file you want to use (the file must be located in the My Documents folder).

   Tap ok.



RUNNING SCAN DEMO

Scan Demo makes it easy to determine the symbology, number of characters, and decoded data (in either ASCII or Hex) of any bar code supported by the scanner. This is especially useful if you encounter a bar code that the scanner will not decode by default.

1. Tap Start | Programs | Scan Demo.

   TIP

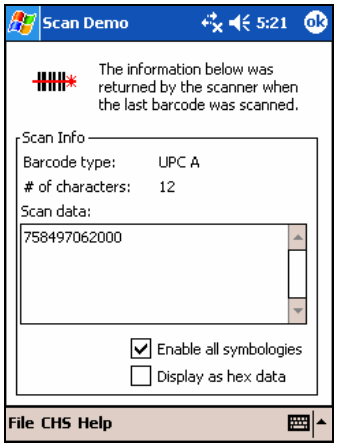
   Accessing Scan Demo disconnects the Bluetooth link. If you have not configured the CRS to automatically connect, select the CRS tab at the bottom of the page to re-establish this link.

2. The Scan Demo screen will appear. If desired, use the check boxes at the bottom of the screen to modify the test.

   Enable all symbologies: By default, this option is checked. Different symbologies can sometimes interpret the same bar code differently, so you may want to uncheck this option.

   Display as hex data: Check this box to view scanned data in hexadecimal format. Otherwise, data will appear as ASCII.

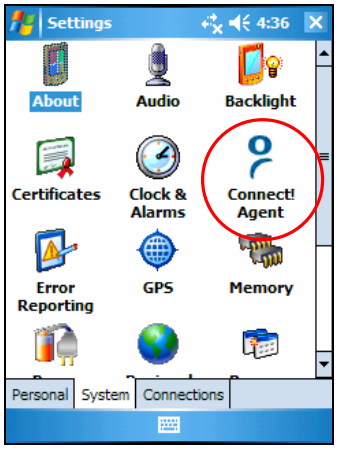
3. Scan the bar code. Scan Demo will report the properties of the bar code.



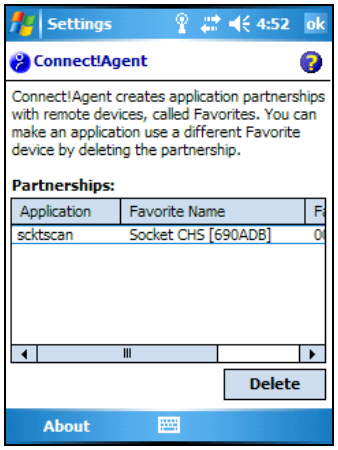
USING THE CONNECT!AGENT UTILITY

The Connect!Agent utility enables you to view and change the default Cordless Ring Scanner, Cordless Hand Scanner or Cordless 56K Modem that Connect!Agent will attempt to connect to.

1. Tap Start | Settings | System tab | Connect!Agent.

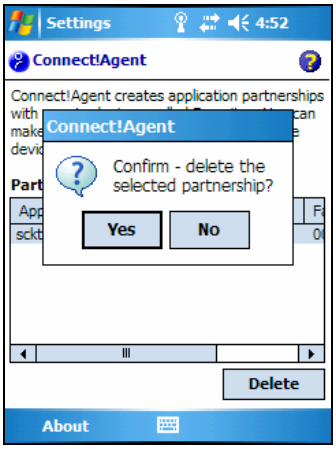


2. The Connect!Agent utility lists the wireless bar code scanners and/or modems that it has saved as favorite devices. These are specific devices that Connect!Agent automatically attempts to connect to whenever SocketScan, Scan Demo or a *Bluetooth* dial-up connection is initiated.



Note: The same CHS/CRS unit can be the favorite device for both SocketScan and Scan Demo.

3. If you wish to remove a device from the partnership list, select the device and tap Delete. In the confirmation screen, tap Yes.



4 | SETUP FOR THE INTERMEC CK30

This chapter explains how to install and use the Cordless Hand Scanner (CRS) with the Intermec CK30 mobile computer, which runs the Windows CE.NET operating system.

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Hardware Preparation."

SETUP SUMMARY

STEP 1: Install the software.
STEP 2: Connect CRS to CK30 with *Bluetooth*.
STEP 3: Assemble and put on the CRS
STEP 4: Scan data into your application.

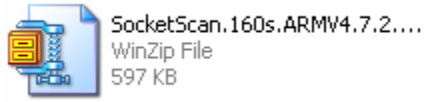
Application Features

Configuring trigger buttons
Selecting symbologies
Configuring prefixes/suffixes
Managing power settings

STEP 1: INSTALL THE SOFTWARE

You must install both SocketScan and Connect!Agent.

1. Use ActiveSync (4.0 or greater), the Windows Mobile Device Center (of Windows Vista) or another method to copy the Connect!Agent and SocketScan CAB files from the 160s folder in the installation CD and paste them into the CK30. Refer to your CK30 manual for instructions.



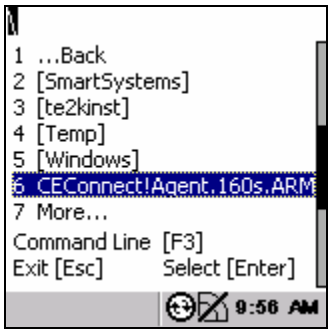
   Remember where you save the CAB files in the CK30. For example, you may want to save the files in the My Documents folder.

2. After copying the CAB files into the CK30, push the green button then the orange button on the CK30 to access the System Main Menu.

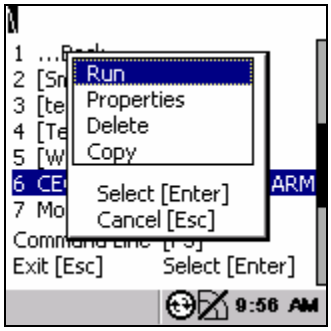
3. In the System Main Menu, press 2 File Manager.

4. Navigate to the location where you saved the CAB files.

5. Select the CE.Connect!Agent.160s.ARM... CAB file and press the Enter button on the right side.



6. In the options window, select Run and press the Enter button on the right side.



7. Follow the instructions on your screen to install Connect!Agent.

8. After you finish Connect!Agent installation, navigate to where you saved the CE.SocketScan.160s.ARM… CAB file and run it to install SocketScan.

STEP 2: CONNECT CRS TO CK30 WITH *BLUETOOTH*

1. Turn on the Cordless Ring Scanner. Press the small power button on the side of the wrist unit for at least 2 seconds, until you hear a beep. The *Bluetooth* status LED on the wrist unit should be blinking blue.

2. On the CK30, press the green button and then the orange button to access the System Main Menu.

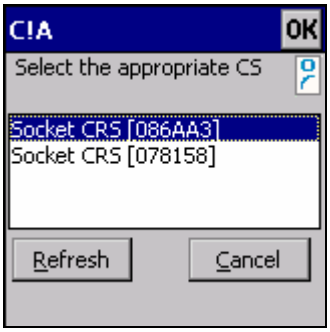
3. In the System Main Menu, press 7 SocketScan.

4. In the SocketScan menu, press 1 Connect Cordless Scanner.

5. Connect!Agent will automatically turn on the *Bluetooth* radio and begin to search for and connect to the CRS.

- If this is your first time connecting to a CRS or CHS (Cordless Hand Scanner) from this CK30, Connect!Agent will begin searching for any CRS or CHS in range.
- If you have previously connected to a CRS or CHS, Connect!Agent will automatically begin searching for the last one you connected to.

6. If Connect!Agent does not have a favorite scanner and finds multiple CHS and/or CRS devices in range, select the one you want to connect to and press the Enter button on the right side.



To help you identify the scanner, Connect!Agent reports the scanner's Bluetooth MAC address. The characters in brackets are the last six characters of the address.

7. Connect!Agent will begin connecting to the CRS.

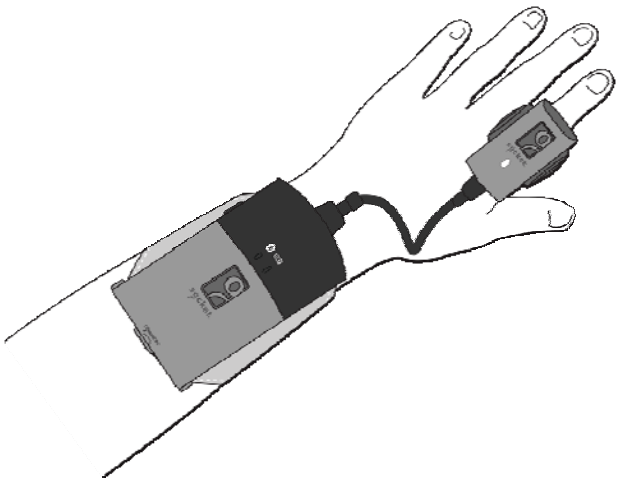
8. After the CK30 connects to the CRS, the scanner will beep once, and the bottom of the SocketScan menu will report, "CRS connected."

9. In the SocketScan menu, press 6 Hide SocketScan.

Do not press the Esc button, or you will close SocketScan and won't be able to scan bar codes into the CK30.

STEP 3: ASSEMBLE AND PUT ON THE CRS

Please refer to the instructions in Chapter 2.



STEP 4: SCAN DATA INTO YOUR APPLICATION

1. Start the Windows application that you want to receive the data (e.g., Word Pad). Make sure a document or spreadsheet is open.

2. Place the cursor where you want data from the next scan to go.

3. Press the trigger button and scan the bar code.

When data is read and sent to the CK30, the laser beam will turn off. Depending on your scanner settings, the scanner may beep and/or the ring scanner's LED may flash green to indicate a good read. If no data is read in a few seconds, the laser will turn off, and you must try again.

4. After a successful scan, data should appear in your document. For example, after you scan a bar code into a spreadsheet, data should appear in the first cell. The default "CR" (carriage return) suffix will advance the cursor to the next cell, ready for the next scan.

   Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.

SocketScan Auto-Reconnect

If your CK30 suspends or the CRS moves out of range, the Bluetooth connection will end. After the CK30 turns on again or returns in range, SocketScan will try to re-connect for approximately3 minutes. If, after 3 minutes, they have not re-connected, you will need to manually re-connect them.

DISCONNECTING THE CRS FROM THE CK30

In the SocketScan menu, press 2 Disconnect Cordless Scanner.

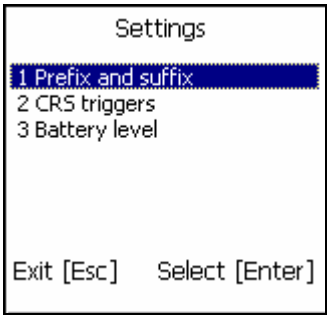
Turning off the CRS

To turn off the CRS, press the power button on the wrist module at least 2 seconds, until the LED stops blinking.

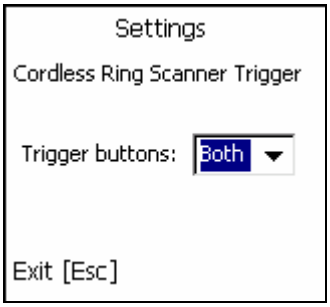
CONFIGURING TRIGGER BUTTONS

1. In the SocketScan menu, press 3 Settings.

2. In the Settings menu, press 2 CRS triggers.



3. By default, both the left and right buttons of the CRS can be used to trigger the laser. If desired, use the up and down buttons to change the settings.



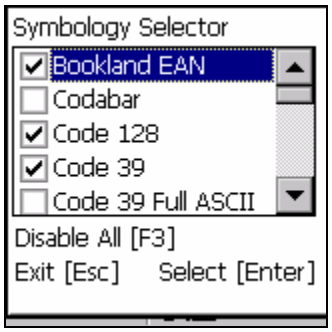
4. Press Esc to exit.

SELECTING SYMBOLOGIES

The utility makes it easy to modify which symbologies you want the scanner to recognize.

1. In the SocketScan menu, press 4 Symbology Selector.

2. In Symbology Selector, press the arrow buttons to scroll through the list. To enable/disable a symbology, select it from the list and press the Enter button on the right side. For convenience, you can press F3 to disable all the symbologies before you make your selections.



3. After making all of your selections, press Esc to exit the Symbology Selector.

TIP *Enabling all possible symbologies will make the decode process slightly longer.*

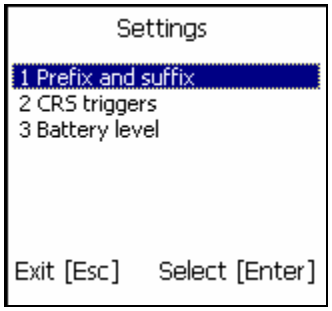
CONFIGURING PREFIXES/SUFFIXES

The SocketScan utility lets you specify prefix and/or suffix characters to be added automatically to the data you scan. This helps to further eliminate manual data entry.

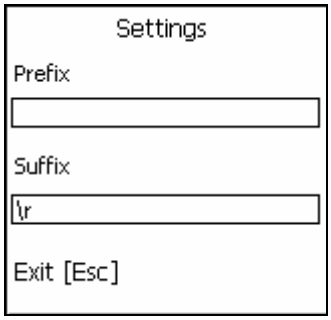
1. In the SocketScan menu, press 3 Settings.

   You can configure prefix/suffixes whether or not the CRS is connected to the CK30.

2. In the Settings, press 1 Prefix and suffix.



3. In the screen that appears, enter the characters you want to be appended to each scan (128 character maximum).



   By default, SocketScan enters a carriage return after every data scan.

   - *Use \r for Carriage Return, \n for Linefeed, \t for Tab., \\ for a single \ character.*
   - *Other characters can be typed or entered using the format \nnn, where nnn = ASCII character 001 through 255.*

4. When you have finished entering prefixes/suffixes, press Esc.

MANAGING POWER SETTINGS

The SocketScan utility lets you manage the power settings of the CRS.

1. Make sure the CRS is connected to the CK30.

2. In the SocketScan menu, press 3 Settings.

3. In the Settings menu, press 3 Battery level.

4. The next screen will report the battery level of the CRS.

   By default, the CRS automatically turns off when there is no *Bluetooth* connection in 20 minutes. If desired, check Disable Auto Power Off mode if you would like the CRS to stay on. Press the Enter button on the right side.

5. Press Esc to exit the Battery Level screen.

5 | SETUP FOR WINDOWS XP

This chapter explains how to install and use the Cordless Ring Scanner (CRS) with a *Bluetooth* enabled desktop, notebook or tablet computer running Windows XP or Windows XP Tablet Edition.

Before you begin the instructions in this chapter, make sure you have charged and installed the battery as explained in Chapter 2, "Hardware Preparation."

Note: The SocketScanXP software is not compatible with Windows Vista. Check our website for software updates.

SETUP SUMMARY

STEP 1: Install the software.
STEP 2: Configure Bluetooth settings
STEP 3: Configure scanner settings.
STEP 4: Start SocketScan and connect to CRS.
STEP 5: Assemble and put on the CRS.
STEP 6: Scan data into your application.

Application Features

- Assigning sound and prefix/suffix settings.
- Configuring advanced *Bluetooth* settings.
- Assigning a remote trigger button.
- Selecting symbologies.
- Enabling ActivePairing™

STEP 1: INSTALL THE SOFTWARE

You must install SocketScan, but installing Connect!Agent is optional.

Should I install Connect!Agent?

Connect!Agent simplifies the Bluetooth setup and connection process. Once the CRS is turned on and SocketScan is running, Connect!Agent will automatically set up and manage the Bluetooth connection. It runs in the background and requires no interaction from the user. For Windows XP, Connect!Agent is only compatible with the Socket (IVT) BlueSoleil and Microsoft XP SP2 Bluetooth stacks.

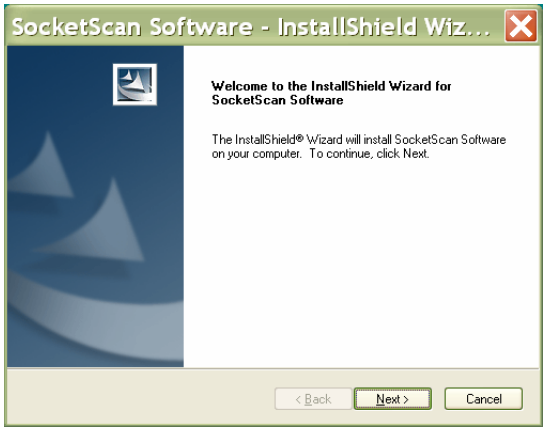
Software installation instructions

ADVANCED USERS: Refer to the README file for CAB installation instructions.

1. Delete any bar code scanning software already installed in your computer, including software from other companies. Make sure the software is closed. Click Start | Control Panel | Add or Remove Programs. Use the utility to delete the software.
2. Insert the SocketScan installation CD into the CD drive of your computer.
3. Use My Computer or Windows Explorer to access your CD drive.

4. In the CD contents, open the SocketScanXP folder and click on the Setup.exe file.

5. The installation wizard will launch. Follow the wizard to install the software.


SocketScan Software - InstallShield Wiz...
Welcome to the InstallShield Wizard for SocketScan Software
The InstallShield® Wizard will install SocketScan Software on your computer. To continue, click Next.
< Back
Next >
Cancel

6. After software installation, icons for SocketScanXP and Socket CS Connect will appear on your desktop.

7. If desired, install Connect!Agent by opening the Connect!Agent folder in the CD and launching the Connect!AgentXPSetup_S.exe file. Follow the wizard to install the software.

STEP 2: CONFIGURE *BLUETOOTH* SETTINGS

Skip this step if you installed and want to use Connect!Agent, which automatically configures the *Bluetooth* settings. Connect!Agent works only with the IVT, Microsoft and Toshiba stacks.

Bluetooth configuration is only needed the first time you connect the CRS to your computer. The configuration method varies depending on which *Bluetooth* stack your computer has.

SocketScan supports a generic Bluetooth COM port and may be able to connect to Bluetooth stacks on host mobile computers other than those listed.

IVT BlueSoleil software:

1. Turn on the Cordless Ring Scanner. Press the small power button on the side of the wrist unit for at least 2 seconds, until you hear a beep. The *Bluetooth* status LED on the wrist unit will start blinking blue.
2. If using an add-on Bluetooth card or adapter, plug it into your computer.
3. Start BlueSoleil. Click on the BlueSoleil icon on your desktop, or click Start | All Programs | IVT BlueSoleil | BlueSoleil.
4. Click My Bluetooth | Security. Check the box Set Default Passkey and enter the default PIN 1234 in the field below.

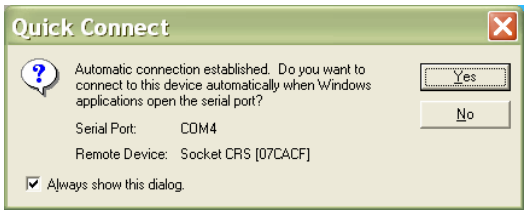
5. Double-click on the red ball to search for the Cordless Ring Scanner, which will appear as Socket CRS [xxxxxx].

TIP *The characters in brackets are the last 6 characters of the scanner's Bluetooth MAC address.*

6. Double-click on the Socket CRS icon to begin the service discovery. After the Serial Port Service icon is highlighted

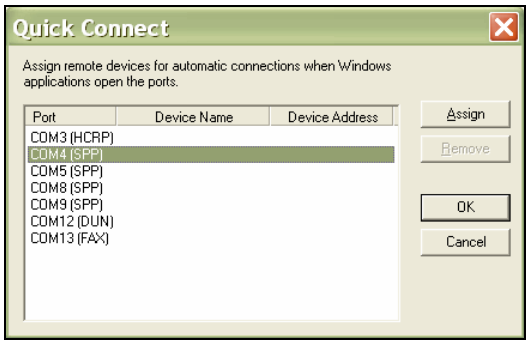
at the top of the screen, right-click on the Serial Port Service icon and click Connect.

7. BlueSoleil will ask whether you want to connect to the CRS automatically when Windows applications open the serial port. Click Yes.


Quick Connect
Automatic connection established. Do you want to connect to this device automatically when Windows applications open the serial port?
Serial Port: COM4
Remote Device: Socket CRS [07CACF]
Always show this dialog.
Yes
No

8. When the devices connect, the CRS will beep once, and the *Bluetooth* logo in the task tray will turn green.

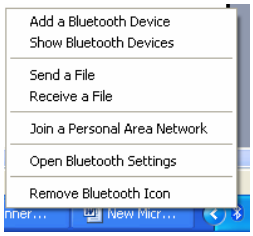
9. Click Tools | Configurations | Quick Connect. Choose a COM port assigned to SPP (Serial Port Profile) and click Assign. In the next screen, select the CRS and click OK. **Remember which COM number you assigned to the CRS** and click OK.



Microsoft Windows XP Service Pack 2:

Refer to the documentation for your *Bluetooth* hardware/software for instructions on discovering and connecting to the CRS.

1. Turn on the Cordless Ring Scanner. Press the small power button on the side of the wrist unit for at least 2 seconds, until you hear a beep. The *Bluetooth* status LED on the wrist unit will start blinking blue.
2. Turn on the *Bluetooth* radio of your computer.
3. Use the Add Bluetooth Device Wizard to discover and connect to the Cordless Ring Scanner. Click on the *Bluetooth* icon in the task tray. In the pop-up menu, click Add a Bluetooth Device.



4. During the device discovery, the Cordless Ring Scanner will appear as Socket CRS [xxxxxx]

   The characters in brackets are the last 6 characters of the scanner's Bluetooth MAC address.

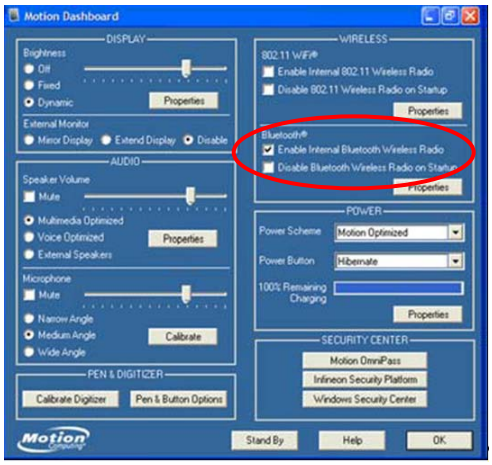
5. In the passkey options screen, select the option Use the passkey found in the documentation and enter the default PIN 1234.
6. The CRS will connect to your computer indicated by a single beep.
7. In the last screen of the Add Bluetooth Device Wizard, note the COM number of the Outgoing COM port. If you plan to enable ActivePairing, also note the Ingoing COM port.

Add Bluetooth Device Wizard
Completing the Add Bluetooth Device Wizard
The Bluetooth device was successfully connected to your computer. Your computer and the device can communicate whenever they are near each other.
These are the COM (serial) ports assigned to your device.
Outgoing COM port: COM9
Incoming COM port: COM10
Learn more about Bluetooth COM ports
To close this wizard, click Finish.
< Back
Finish
Cancel

Toshiba Bluetooth Stack:

These instructions are based on a Motion Computing tablet. Refer to the manual for your *Bluetooth* hardware/software for specific *Bluetooth* usage instructions.

1. Turn on the *Bluetooth* radio of your computer. Tap on the Dashboard icon on the desktop. In the dashboard, check Enable Internal Bluetooth Wireless Radio. Tap OK.



2. Turn on the Cordless Ring Scanner. Press the small power button on the side of the wrist unit for at least 2 seconds, until you hear a beep. The *Bluetooth* status LED on the wrist unit will start blinking blue.

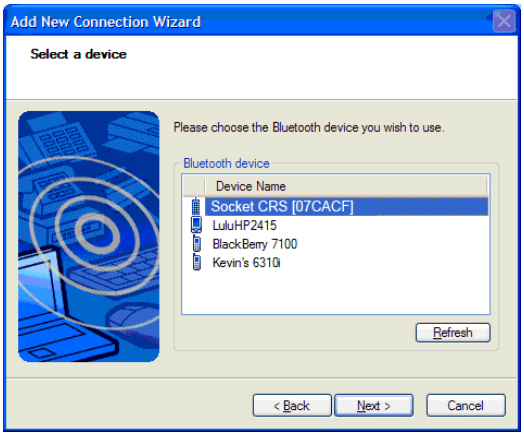
3. Double-tap on the *Bluetooth* icon at the bottom of your screen.

4. In *Bluetooth* Settings, tap New Connection at the bottom of the screen.

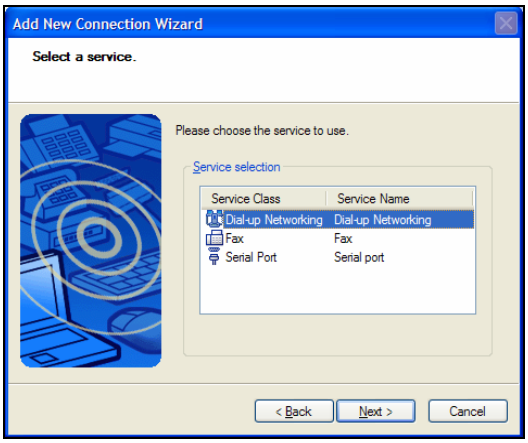
5. The Add New Connection Wizard will launch. Select Custom Mode and tap Next. The tablet will begin searching for *Bluetooth* devices in range.

Add New Connection Wizard
This wizard will create the settings for Bluetooth device connection.
Please ensure your Bluetooth devices are on and set to discoverable.
Express Mode (Recommended)
Custom Mode
This allows you to set the details for the connection.
< Back
Next >
Cancel

6. In the list of found devices, select Socket CRS [xxxxxx]. Tap Next.



7. If a passkey is requested, enter the default PIN 1234. Tap OK. To indicate the connection, the CRS will beep once.
8. In the list of device services, select Serial Port. Tap Next.

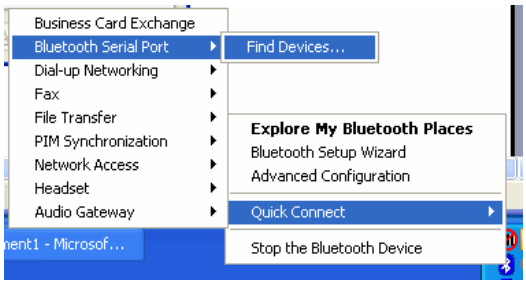


9. Note which COM port is assigned to the CRS.

Broadcom (Widcomm) Bluetooth Stack:

Refer to the manual for your *Bluetooth* hardware/software for specific instructions. Many *Bluetooth* USB adapters use this stack.

1. Turn on the *Bluetooth* radio of your computer.
2. Turn on the Cordless Ring Scanner. Press the small power button on the side of the wrist unit for at least 2 seconds, until you hear a beep. The *Bluetooth* status LED on the wrist unit will start blinking blue.
3. Perform a Quick Connect to a *Bluetooth* Serial Port. Click the *Bluetooth* icon in the task tray. Click Quick Connect | Bluetooth Serial Port | Find Devices.



It is essential to connect to the CRS via Quick Connect because this sets the CRS as your default Bluetooth serial device.

4. During the device search, the CRS will appear as Socket CRS [xxxxxx]

   The characters in brackets are the last 6 characters of the scanner's Bluetooth MAC address.

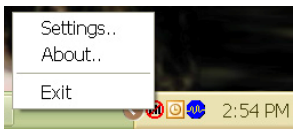
5. If a passkey is requested, enter **1234**. To indicate the connection, the CRS will beep once.

   By default, the Bluetooth software will ask you for the passkey each time you connect. To stop the automatic prompts, under Advanced Configuration, disable the Secure Connection requirement for both the Local Service and Client Application, then unpair the devices. Refer to the documentation for your Bluetooth hardware/software for complete instructions.

STEP 3: CONFIGURE SCANNER SETTINGS

1. Turn on the Cordless Ring Scanner. Press the small power button on the side of the wrist unit for at least 2 seconds, until you hear a beep. The *Bluetooth* status LED on the wrist unit should be blinking blue.

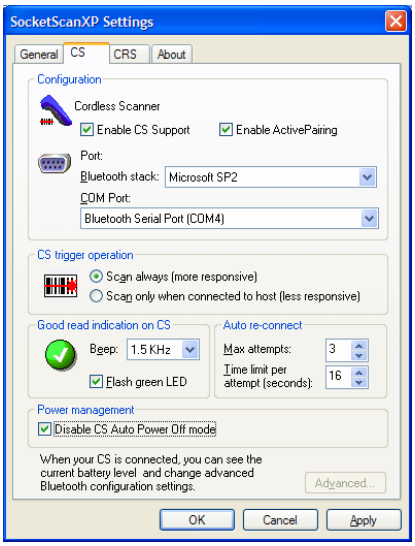
2. Click the SocketScan icon at the bottom of the screen. In the pop-up menu, click Settings.



   Alternatively, click Start | Control Panel | SocketScanXP Settings.

   If the SocketScan icon does not appear at the bottom of the screen, click on the SocketScanXP icon on your desktop.

3. Tap on the CS tab. Enter the following settings:



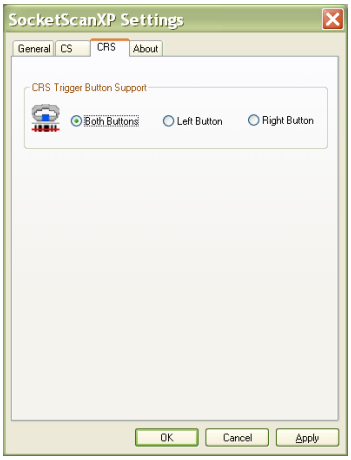
   - Enable CS support: Check this box. IMPORTANT!!!

   - Enable ActivePairing: See the Active Pairing section at the end of this chapter for instructions.

   - Bluetooth stack: Select Connect!Agent if you want to use it. Otherwise, select your computer's *Bluetooth* stack. The Connect!Agent option will only appear if you installed the Connect!Agent software.

- COM Port: Select the COM port number assigned to the CRS. This field will only appear for some *Bluetooth* stacks.
- CS trigger operation: Select whether you want the CRS to scan only when a *Bluetooth* connection to the device is detected. If you select
- Scan only when connected to host, scanning will be a few milliseconds slower.
- Good read indication on CS: Select how you would like the CRS to indicate that it has successfully read data.
- Auto re-connect: Select the maximum number of attempts and time limit per attempt for the CRS to try to reconnect to your computer in case they are moved out of range from each other.
- Battery Level: No progress bar should appear since you are not connected to the CRS.
- Power management: The CRS automatically shuts off if there is no *Bluetooth* connection for 20 minutes. Check to disable.
- Advanced: When the computer is connected to the CRS, you can modify the *Bluetooth* friendly name and security settings of the CRS.

4. Click on the CRS tab. Select which button on the CRS you would like to use to trigger the scanner.

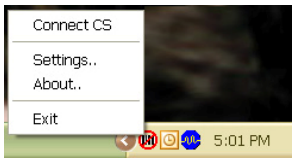


5. After entering settings, click OK to save the changes.
6. If SocketScan is open, you will be prompted to exit and restart SocketScan. Click OK. Click on the SocketScan icon at the bottom and in the menu, click Exit.

STEP 4: START SOCKETSCAN AND CONNECT TO CRS

1. If you did not install Connect!Agent start your computer's *Bluetooth* software and make sure the *Bluetooth* radio is turned on.

2. Right-click the SocketScan icon at the bottom of the screen and click Connect CS.



If you installed Connect!Agent, will automatically open the Bluetooth software and turn on the Bluetooth radio when you click Connect CS.

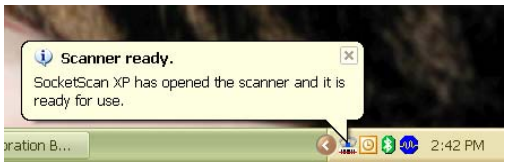
After the correct Bluetooth hardware settings are configured (either manually or by Connect!Agent), the Connect CS menu option allows you to connect to the CRS directly from SocketScan, instead of manually connecting from your Bluetooth software.

The Connect CS option will not appear unless you checked the box Enable CS Support in the SocketScanXP settings.

SocketScan will not be able to connect to the CRS if you have another device assigned as your favorite or default Bluetooth serial device.

3. If you are using Connect!Agent and this is your first time connecting, Connect!Agent will automatically begin searching for the CRS. After it finds the CRS, it will automatically configure the connection.

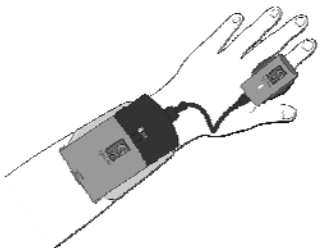
4. SocketScan will connect the computer to the CRS.



5. The task tray icon at the bottom of your screen will change to an image of a ring above a bar code to indicate that SocketScan is connected to the CRS.

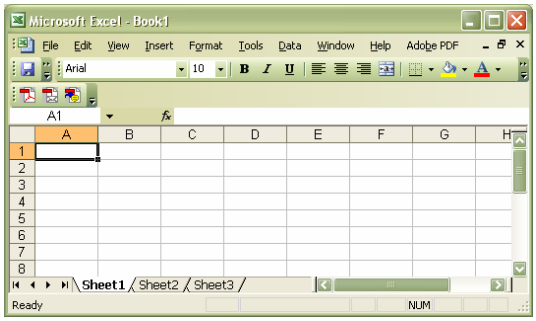
STEP 5: ASSEMBLE AND PUT ON THE CRS

Please refer to the instructions in Chapter 2.



STEP 6: SCAN DATA INTO YOUR APPLICATION

1. Start the Windows application that you want to enter scanned data into (e.g., Excel, Notepad, etc.). Make sure a document or spreadsheet is open.



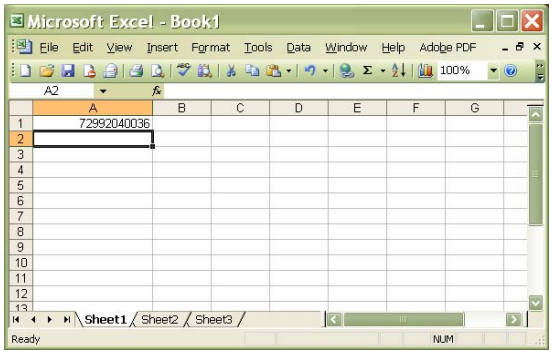
2. Place the cursor where you want data from the next scan to be entered.

3. Press the trigger button and aim your finger at the bar code. The red laser beam should cover the entire width of the bar code. See Chapter 1 for scanning tips.

When data is read and sent to the mobile computing device, the laser will turn off. Depending on your scanner settings, the scanner may beep and/or the ring scanner's LED may flash green to indicate a good read.

If no data is read in a few seconds, the laser will turn off, and you must try again.

4. After a successful scan, data should appear in your document. By default, the cursor automatically advances to the next cell or line, ready for the next scan.

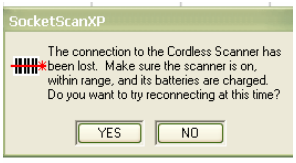


Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.

For information about third-party applications compatible with the CRS for asset tracking, warehouse mobility, and other vertical markets, visit: www.socketmobile.com/solutions/vertical-markets

Reconnecting

If your computer suspends or the CRS is moved out of range, the connection will be lost. After the computer turns on again or returns in range, SocketScan will try to re-connect according to the "auto re-connect" settings you chose in SocketScan.


SocketScanXP
The connection to the Cordless Scanner has been lost. Make sure the scanner is on, within range, and its batteries are charged. Do you want to try reconnecting at this time?
YES
NO

After the time limit for re-connection attempts has passed, you can click on the Socket CS Connect icon on the desktop to manually initiate re-connection.

Disconnecting

To disconnect, click on the SocketScan icon and click Disconnect CS.

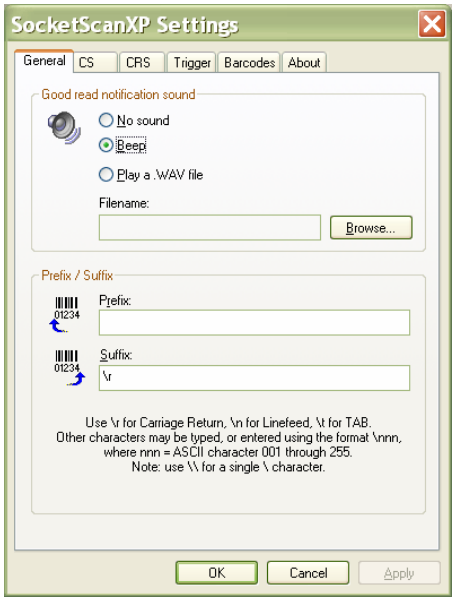
Turning off the CRS

To turn off the CRS, press the power button on the wrist unit for at least 2 seconds, until you hear 2 beeps.

ASSIGNING SOUND AND PREFIX/SUFFIX SETTINGS

You can configure these settings whether or not the CRS is connected to your computer. The Trigger and Barcodes tabs appear only when connected.

1. In SocketScanXP Settings, click on the General tab.



2. Adjust any settings as desired:

   Good read notification sound:
   Select which sound you would like your computer to use to indicate good readings of data. By default, your computer will beep.

   - If you would like your computer to play a .WAV file, select Play a .WAV file and click Browse to indicate the file location.

   Prefix/Suffix:
   Enter any prefix and/or suffixes you would like SocketScan to automatically append to scanned data (128 character max., printable ASCII characters only). By default, SocketScan will enter a carriage return after every data scan.

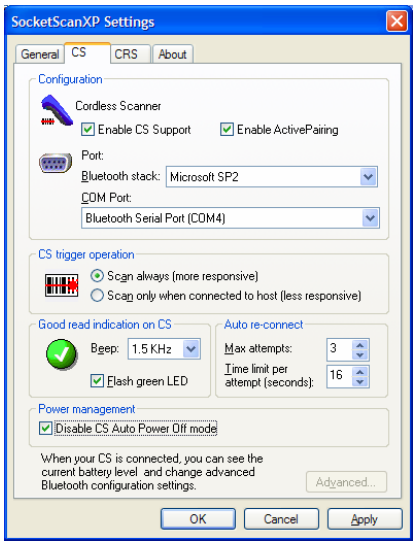
   - Use \r for Carriage Return, \n for Linefeed, \t for Tab., \\ for a single \ character.
   - Other characters can be typed or entered using the format \nnn, where nnn = ASCII character 001 through 255.

3. After changing any settings, click OK. As prompted, exit and restart SocketScanXP.

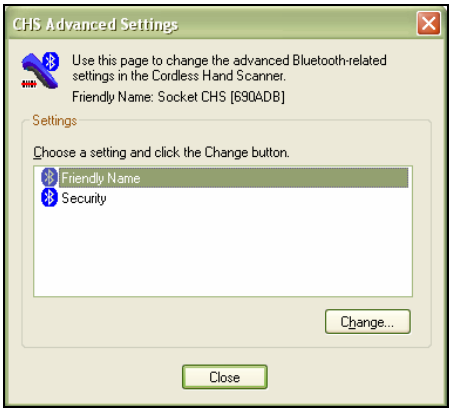
CONFIGURING ADVANCED BLUETOOTH SETTINGS

The SocketScanXP utility enables you configure advanced *Bluetooth* settings of the CRS, including the *Bluetooth* friendly name and security settings.

1. In SocketScanXP Settings, click on the CS tab. At the bottom of the screen, the CRS battery level will be indicated by a status bar. Click Advanced.

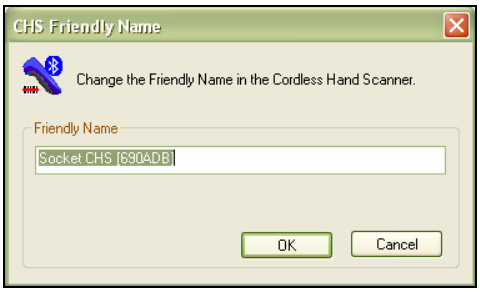


2. The Advanced Settings screen will appear, reporting the current *Bluetooth* friendly name assigned to the CRS. If desired, select Friendly Name or Security and click Change.


CHS Advanced Settings
Use this page to change the advanced Bluetooth-related settings in the Cordless Hand Scanner.
Friendly Name: Socket CHS [690ADB]
Settings
Choose a setting and click the Change button.
Friendly Name
Security
Change...
Close

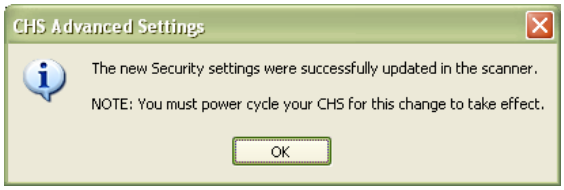
3. In the screen that appears, enter any changes and click OK.

   Friendly Name: Enter a new friendly name and click OK.



   Security Settings: Enter a PIN code and/or any authentication or encryption settings. If desired, click Delete Bonding to delete any bonding/pairing information in the CRS. After making any changes, click OK.

4. If you modified any security settings, you will be prompted to turn your CRS off and back on to make the changes take effect. Read the message and click OK. Turn the CRS off and back on again.


CHS Advanced Settings
The new Security settings were successfully updated in the scanner.
NOTE: You must power cycle your CHS for this change to take effect.
OK

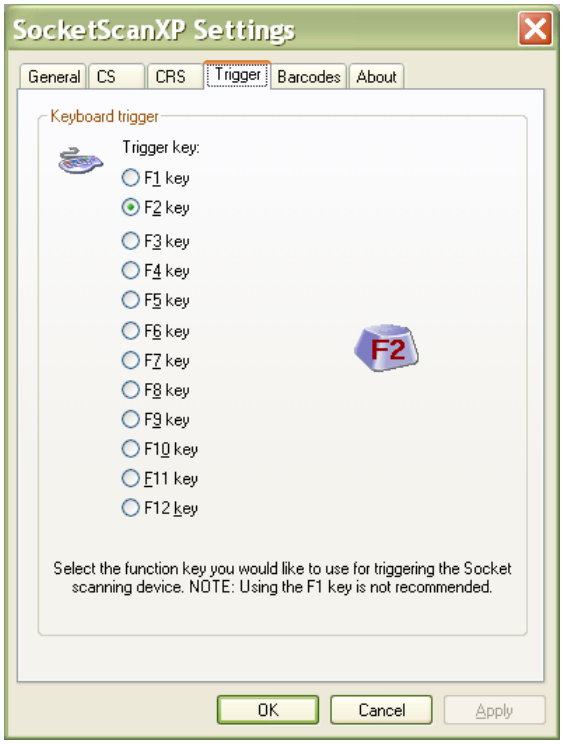
5. When you return to the Advanced Settings screen, click Close. In the SocketScanXP Settings screen, click OK.
6. Exit and restart SocketScanXP to have your changes take effect.

ASSIGNING A REMOTE TRIGGER BUTTON

The SocketScanXP utility enables you to assign of your computer's function keys to trigger the CRS.

1. In SocketScanXP Settings, click on the Barcodes tab.

The Trigger and Barcodes tabs will only appear if you are connected to the CRS.



2. Select the function key you would like to use to remotely trigger the CRS. Click OK.

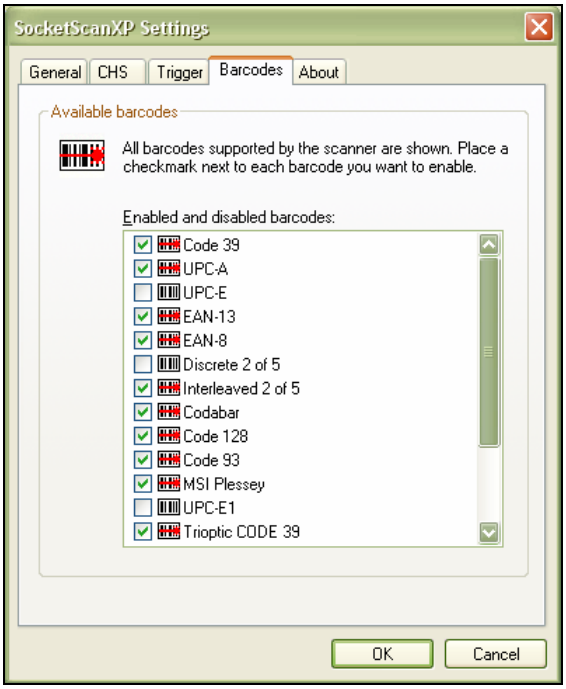
3. As prompted, exit and restart SocketScanXP to have your changes take effect.

SELECTING SYMBOLOGIES

The SocketScanXP utility makes it easy to modify which symbologies you want the scanner to recognize and decode.

1. In SocketScanXP Settings, click on the Barcodes tab.

The Trigger and Barcodes tabs will only appear if you are connected to the CRS.



2. Check the symbologies you wish to enable. Uncheck those you wish to disable. Click OK.

Enabling all possible symbologies will make the decode process slightly longer.

3. As prompted, exit and restart SocketScanXP to have your changes take effect.

ENABLING ACTIVEPAIRING

ActivePairing enables CRS Series 9 scanners to connect to a Windows XP host computer without requiring the host computer to initiate the connection. With ActivePairing, the CRS can connect or disconnect from a host computer by simply scanning a special bar code.

- Enabling ActivePairing mode will set the CRS in an "initiator" mode. In initiator mode, the CRS can connect or disconnect to a host computer by scanning a special bar code.
- By not enabling ActiveParing mode, the CRS is in its current default state of "acceptor" mode.
- If ActivePairing is enabled, the user can return the CRS to normal "acceptor" mode by scanning a special bar code.

Notes:

- *ActivePairing works only with the Microsoft Windows XP SP2 Bluetooth stack.*
- *Only the latest revisions of the wireless wrist module support ActivePairing. Check the label on the back of the wrist module for the part number revision letter.*

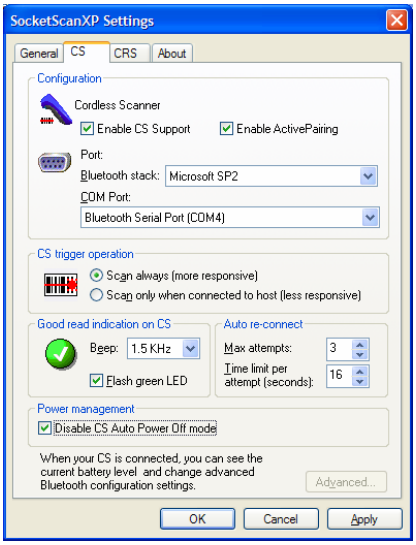
CRS version	*Part Number*	*Revisions with Active Pairing Support*
9M	*9010-00730*	*"F" or later*
9P	*9010-00703*	*"F" or later*

1. Find out which COM (serial) port number your computer assigned to the CRS for the Incoming *Bluetooth* COM port. Refer to your Bluetooth hardware/software manual for more information.

Add Bluetooth Device Wizard
Completing the Add Bluetooth Device Wizard
The Bluetooth device was successfully connected to your computer. Your computer and the device can communicate whenever they are near each other.
These are the COM (serial) ports assigned to your device.
Outgoing COM port: COM9
Incoming COM port: COM10
Learn more about Bluetooth COM ports.
To close this wizard, click Finish.
< Back
Finish
Cancel

2. In SocketScanXP Settings, click on the CS tab.

3. Enable ActivePairing by checking the box "Enable ActivePairing" at the top of the screen. In the Bluetooth stack drop down menu, select Microsoft SP2. Select the correct COM port.



Note: If there are no Bluetooth Serial Ports available in the COM Port drop-down menu, go to the Control Panel to access the Microsoft Bluetooth utility. Use the utility to add an incoming COM port.

4. Click Apply and OK. Exit SocketScan and restart your computer for the changes to take effect.

5. Print bar code labels using any bar code software application. Print one bar code to connect (initiator) the CRS and one bar code to disconnect (acceptor) the CRS from the host computer.

   IMPORTANT! ActivePairing bar codes must use the Code 128 symbology, and all letters must be in capitals (upper case)!

   a. The ActivePairing "Initiator" bar code contains the following special characters:

      #FNIAABBCCDDEEFF# where "AABBCCDDEEFF"is the *Bluetooth* address of the host computer.

b. The ActivePairing “Acceptor” bar code contains the following special characters:

#FNA#

See Appendix C, Bar Code Label Specifications, for tips on printing bar code labels.

6. To connect the CRS to the host computer, scan the “Initiator” bar code. Within 10 seconds, you ill be prompted to enter a passkey. Enter the passkey **1234**. When the CRS connects, it will beep once.

   Note: It may take several seconds for the CRS to connect.

7. To connect the CRS to a different host computer, do the following:

   - Scan the “Acceptor” bar code to disconnect from the first host computer.
   - Move within *Bluetooth* range of the second host computer.
   - Scan the “Initiator” bar code associated with the second host computer.
   - Within 10 seconds, you will be prompted to enter a passkey. Enter the passkey **1234**.

IMPORTANT!

After you finish scanning with ActivePairing enabled, disconnect the CRS from the host computer by scanning the #FNA# bar code!
Do not disconnect by clicking “Disconnect” in the SocketScan menu, or the CRS can hang.

After making any changes to the CPL, always exit the application and re-launch it. If a screen appears that tells you to disconnect and re-connect, ignore the screen.

APPENDIX A
SPECIFICATIONS

Physical Characteristics
Wrist Unit Size: 98l x 13.1h x 47w (mm) 3.86l x 0.52h x 1.85w (in.)
Ring Size: 55l x 37h x 38w (mm) 2.17l x 1.46h x 1.5w (in.)
Wrist Unit Mass: approx. 90 g (3.2 oz)
Ring Mass: approx. 50 g (1.8 oz)
Mass with Battery: 167 g (5.9 oz)

Power Source: Rechargeable 3.7V lithium-ion battery
Expected Battery Life with Typical Operation (connected via Bluetooth and minimum 10,000 bar code scans): 8 hours

Operating Temp: -4 to 140°F (-20 to 60°C)

Operating System Support:
- Windows Mobile 2003, 2003SE, 5.0
- Windows CE.NET for Intermec CK30
- Windows XP and XP Tablet Edition

Bluetooth Stack Support:
- Broadcom (Widcomm) v1.5 or greater for Windows Mobile 2003/2003SE
- Broadcom (Widcomm) v1.7 or greater for Windows Mobile 5.0
- IVT BlueSoleil v1.6.1.4
- Microsoft *Bluetooth* stack for Windows Mobile
- Microsoft Windows XP Service Pack 2
- Socket Mobile Drakar v1.4
- Toshiba *Bluetooth* stack v3.0 or greater for Windows XP

Note: Additional Bluetooth stacks may be compatible but have not been tested by Socket Mobile.

2005 Sunrise Date Compliant

Scanning Characteristics
Bar Code Symbologies Decoded: Code 39, UPC/EAN/JAN, MSI, Code 128, Code 93, Codabar, I 2 of 5, D 2 of 5, RSS-14, RSS-Limited, RSS-Expanded, Chinese 2 of 5

Laser:
CRS 9M: Class 1
CRS 9P: Class 2

Scan Angle: 46.5°

Laser Scanner Performance:
Scan Repetition Rate: 100 scans/sec (bi-directional)
Decode Distances (depends on symbol size, symbology, label media, W-N Ratio, scan angle):
CRS 9M: 1.00 to 35.00 inches typical
CRS 9P: 1.00 to 45.00 inches typical

Bluetooth Characteristics
Protocol: *Bluetooth* 2.45 GHz ISM band frequency hopping
Antenna: Integrated
Radio Range (depends on environment):
CRS 9M: Up to 30 ft (10 m)
CRS 9P: Up to 330 ft (100 m)
Connection: Point-to-point
Security: Encrypted link 128 bit encryption
RF Power:
CRS 9M: Class 2 *Bluetooth* radio
CRS 9P: Class 1 *Bluetooth* radio
Typical Output: 14 dbm

Certification/Compliance
FCC: Part 15, Class B
CE: EN55024:2003
FCC: Part 15, Class B
CE: EN55024:2003, EN60825, EN60825-1:1994+ A1:2002 +A2:2001 IEC60825-1:1993+A1:1997+A2:2001
RoHS
21CFR1040.10, 21CFR1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.
Bluetooth 1.1

About Bluetooth Range
The Cordless Ring Scanner features a powerful Class 1 *Bluetooth* (Class 2 Bluetooth with a maximum range of 30ft or 10m is also available) radio to provide the maximum possible range. As with all wireless technologies, the connection range can vary widely depending on many factors such as the brand and placement of the host device, the type and size of physical obstacles and the presence and activity level of competing radio transmissions.

In range testing of the CRS while connected to a variety of typical host devices with Class 2 radios, functional connection distances from 18 to over 100 feet have been experienced depending on the environment. The following conditions appear to reduce the *Bluetooth* connection range:

- The presence of soft, absorbent materials such as paper, fiberglass insulation, foam material in office cubical walls, carpeting and, to a lesser extent, even sheetrock and wood construction materials. Hard materials such as concrete increase the range.
- Human bodies or containers of liquid positioned between the host and the CRS.
- The presence and activity level of competing *Bluetooth* or 802.11 (Wi-Fi) systems using the same 2.4 GHz frequency.
- Metal in a grid pattern, such as chain link fencing or chicken wire. This type of material may block the *Bluetooth* (or Wi-Fi) signal completely.

APPENDIX B
SAFETY AND USAGE TIPS

About *Bluetooth* and Health

Bluetooth wireless technology allows you to use short-range radio signals to connect a variety of devices, such as bar code scanners, mobile phones, Pocket PCs, notebook computers, printers, LAN access points, and many other devices at home or work. These radio signals replace the cables that have traditionally connected these devices.

Bluetooth products have small radio transmitters and receivers. Output power is normally very low, only 1 mW (1/1000 of a watt). This gives a working range of approximately 10 meters.

The maximum exposure levels from *Bluetooth* products are far below recommended safety guidelines. At most, typical *Bluetooth* devices (1mW) reach only one percent of the prescribed safety levels.

Product Care

- Do not expose your product to liquid, moisture or extreme humidity.
- Do not expose your product to extreme high or low temperatures.
- Do not expose your product to lit candles, cigarettes, or cigars, or to open flames, etc.
- Do not drop, throw or try to bend the product, as rough treatment could damage it.
- Do not paint your product, as the paint could obstruct parts and prevent normal use.
- Do not attempt to disassemble your product: a broken warranty seal will void the warranty. The product does not contain consumer serviceable components. Should your Cordless Ring Scanner need service, please contact Socket Mobile technical support at: support@socketcom.com.
- Treat your product with care. Keep in a clean and dust-free place.
- Changes or modifications of this product, not expressly approved by Socket Mobile, may void the user's authority to operate the equipment.

Antenna Care

Do not place a metallic shield around the Cordless Ring Scanner since it will reduce the radio transmission efficiency.

Efficient Use

For optimum performance, please make sure that there is no metal surrounding your Cordless Ring Scanner.

Driving

RF energy may affect some electronic systems in motor vehicles, such as car stereo, safety equipment, etc. Check with your vehicle manufacturer to be sure that the Cordless Ring Scanner will not affect the vehicle's electronics.

Aircraft

- Turn off your Cordless Ring Scanner before boarding any aircraft.
- To prevent interference with communications systems, you must not use your Cordless Ring Scanner while the plane is in the air.
- Do not use it on the ground without permission from the crew.

Radio Frequency Exposure

Your Cordless Ring Scanner contains a radio transmitter and receiver. When in operation, it communicates with a *Bluetooth* enabled mobile computer by receiving and transmitting radio frequency (RF) magnetic fields in the frequency range 2400 to 2500 MHz. The output power of the radio transmitter is 0.001 Watt. The Cordless Ring Scanner is designed to be in compliance with the RF exposure limits set by national authorities and international health agencies[1] when installed or used separately from other antennas or radio transmitters.

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[1] Examples of RF exposure standards and guidelines:

ICNIRP, "Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)", International Commission on Non-Ionizing Radiation Protection (ICNIRP), Health Physics, vol. 74, pp 494-533, April 1998.

99/519/EC, EU Council Recommendation on the limitation of exposure to the general public to electromagnetic fields 0 Hz – 300 GHz, Official Journal of the European Communities, July 12, 1999.

ANSI/IEEE C95.1-1992, "Safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz", The Institute of Electrical and Electronics Engineers, Inc., New York, 1991.

FCC Report and Order, ET Docket 93-62, FCC 96-326, Federal Communications Commission (FCC), August 1996.

Radiocommunications (Electromagnetic Radiation Human Exposure) Standard 1999, Australian Communications Authority (ACA), May 1999.

APPENDIX C
BAR CODE LABEL SPECIFICATIONS

All bar code symbols/labels should satisfy the appropriate AIM Uniform Symbology Specification.

Background Substrate:
The bar code symbol should be printed on material (media) that is reflective and has a matte (not glossy) finish. A background diffuse reflectance of at least 70% to 80% is desirable for optimum contrast. Retro-reflective media should be used to obtain decode distances greater than 36 inches.

Ink Color and Type:
The inked bars should not exceed 25% reflectance at the wavelength that is being used for reading, whether printed with black ink or colored ink. The reflectance value should not vary more than 5% within the same character.

Voids and Specks:
The code should be printed clearly, free of voids, specks, blemishes and lines that could "fool" the scanner. Specks or blemishes in the white spaces, or false or missing bar sections could be interpreted by the reading equipment as part of the code. Generally, the width of such flaws is more serious than the height. Code symbols/ labels should be rejected if these defects are present.

Definition:
The bars in the bar code symbol should be well defined. Their edges should not be rough or fuzzy, so that the bars and spaces have the proper widths intended for the bar code symbology used.

Contrast:
Background reflectance (that of the substrate on which the codes are printed) should always provide a good contrast relative to the ink reflectance (that of the code bars). The difference between the two should be at least 37.5% at the wavelength used for reading.

Tolerance:
The ratio of the widths of bars and spaces in a bar code symbol must conform to the appropriate AIM bar code specifications and can cause problems if not correct throughout the bar code. Problems can occur when bar edges are smeared or rough, or when they exhibit voids.

APPENDIX D
ENABLING OR DISABLING SYMBOLOGIES

The Cordless Ring Scanner is pre-set to automatically detect and decode (auto-discriminate) the most common bar code symbologies. To enable or disable symbologies, simply use the SocketScan Symbology Selector.

Notes:

- *The length of some symbologies will change after Symbology Selector is used. See Table 1.*
- *With more symbologies enabled, the scanner must work harder to search through all the possible combinations. This may make the decoding process slightly longer.*
- *The advanced symbology parameters listed in Table 2 can only be modified by using the SocketScan Advanced Programming Guide or the SocketScan SDK. Check the Socket Mobile website for updates.*

Table 1. Default Symbologies

Symbology	Scanner Default	Default Length	Length after Symbology Selector
UPC/EAN/JAN			
UPC-A	Enabled	N/A	N/A
UPC-E	Enabled	N/A	N/A
UPC-E1	Disabled	N/A	N/A
EAN-8	Enabled	N/A	N/A
EAN-13	Enabled	N/A	N/A
Code 128 (USS-128 & UCC/EAN 128)	Enabled	Any	Any
Code 39*			
Code 39	Enabled	2 to 23	2 to 55
Trioptic Code 39	Enabled	2 to 23	2 to 55
Code 39 Full ASCII	Disabled	2 to 23	2 to 55
Code 93	Disabled	2 to 38	2 to 55
Interleaved 2 of 5*	Enabled	14 Only	2 to 55
Discrete 2 of 5*	Disabled	12 Only	2 to 55
Codabar	Disabled	5 to 55	2 to 55
MSI Plessey*	Disabled	1 to 30	2 to 55
RSS-14 (Standard, Limited, Expanded)**	Disabled	N/A	N/A

**Warning: Setting the length to "Any" may lead to inaccurate decodes of these symbologies.*
***This symbology will be added in the next release.*

Table 2. Other Symbology Parameters

Symbology Parameters	Scanner Default
UPC/EAN/JAN	
Supplementals	Disabled
Transmit Check Digit	Enabled
Bookland EAN	Disabled
Decode UPC/EAN Supplementals	Ignore
UPC/EAN Supplemental Redundancy	Seven
Transmit UPC-A Check Digit	Enabled
Transmit UPC-E Check Digit	Enabled
Transmit UPC-E1 Check Digit	Enabled
Convert UPC-E to A	Disabled
Convert UPC-E1 to A	Disabled
EAN-8 Zero Extend	Disabled
UPC/EAN Security Level	0
UPC/EAN Coupon Code	Disabled
Code 39	
Convert Code 39 to Code 32	Disabled
Code 32 Prefix	Disabled
Check Digit Verification	Disabled
Transmit Check Digit	Disabled
Code 39 Full ASCII	Disabled
Interleaved 2 of 5	
Check Digit Verification	Disabled
Transmit Check Digit	Disabled
Convert I 2 of 5 to EAN-13	Disabled
RSS-14	Disabled
RSS-14 Limited	Disabled
RSS-14 Expanded	Disabled

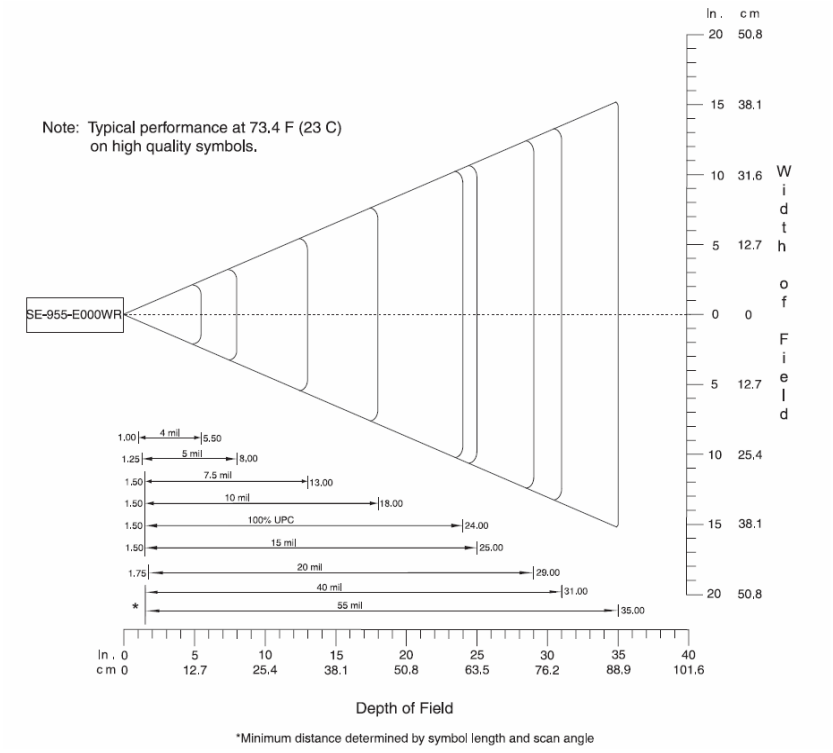
For more information on bar codes, symbologies, labels or other bar code related topics, visit any of the following web sites:

a. www.aimglobal.org/technologies/barcode/
b. www.aimglobal.org/aimstore/stackedsymbologies.htm
c. www.adams1.com
d. www.bizfonts.com
e. www.barcode-us.com/info_center/upc.htm (UPC Codes)
f. www.barcode-us.com/info_center/bookinfo.htm (Bookland EAN)
g. www.dataid.com/bcsymbology.htm
h. www.aaabarcodes.com
i. www.snx.com/mechanics.html
j. www.pscnet.com/html/aabcsymbologies.htm#Checksums
k. www.idautomation.com/barcoding4beginners.html

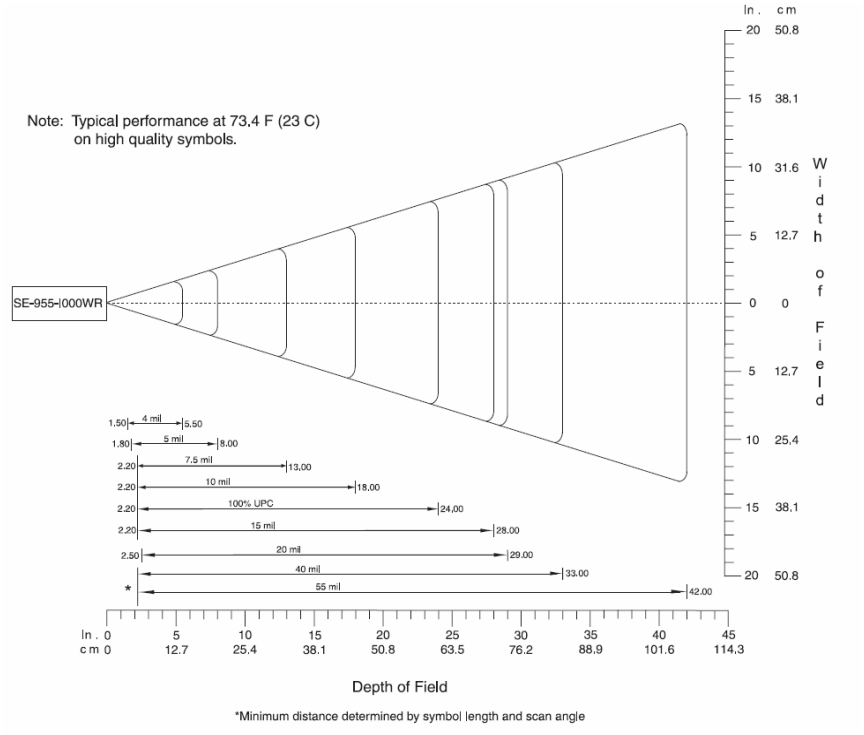
APPENDIX E
DECODE ZONE

The decode zones for the Cordless Ring Scanner is shown below. The minimum element width ("X Dimension" or bar code "size") is the width in thousandths of an inch (mils) of the narrowest element (bar or space) in the symbol. The figures shown are the typical scanning distances (depths of field) for selected bar code sizes. The maximum usable length of a bar code symbol (Width of Field) at any given range is also shown.

CRS 9M



CRS 9P


Note: Typical performance at 73.4 F (23 C)
on high quality symbols.
SE-955-I000WR
In. cm
20 50.8
15 38.1
10 31.6
5 12.7
0 0
5 12.7
10 25.4
15 38.1
20 50.8
Width of Field
1.50 4 mil 5.50
1.80 5 mil 8.00
2.20 7.5 mil 13.00
2.20 10 mil 18.00
2.20 100% UPC 24.00
2.20 15 mil 28.00
2.50 20 mil 29.00
40 mil 33.00
* 55 mil 42.00
In. 0 5 10 15 20 25 30 35 40 45
cm 0 12.7 25.4 38.1 50.8 63.5 76.2 88.9 101.6 114.3
Depth of Field
*Minimum distance determined by symbol length and scan angle

APPENDIX F
TROUBLESHOOTING

For help on SocketScan for Windows Mobile, tap Start | Help on a Pocket PC.

***SYMPTOM**: I get the "No Scanner Detected"* *icon in the task tray of my Windows device and can't trigger the laser or scan any bar codes.*

POSSIBLE REASON	SOLUTION
Your mobile computer is not connected to the Cordless Ring Scanner.	Make sure the Cordless Ring Scanner is on and in range and has enough battery power. Try to reconnect by clicking on the icon and clicking Connect CS.

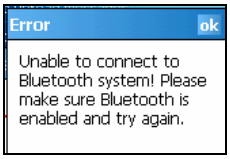
***SYMPTOM**: When I try to scan, the laser activates, but no data appears on my screen, and the laser eventually turns off.*

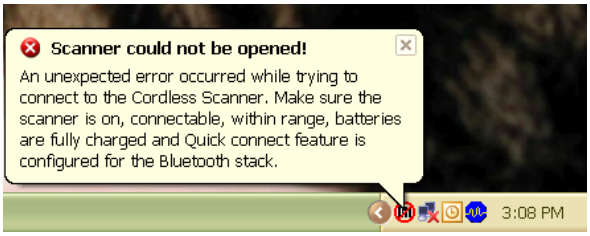
POSSIBLE REASON	SOLUTION
The scanner is too close or too far from the bar code.	Practice so you get accustomed the most effective distance and scanning angle.
The bar code is incorrectly formatted or poorly printed.	Try scanning a bar code that is correctly formatted or printed well, such as on a retail package.
The bar code symbology may be disabled or not supported by the Cordless Ring Scanner.	Use Scan Demo for Windows Mobile to identify the symbology. If needed, enable the symbology by using Symbology Selector.
You don't have an application open to scan data into.	Open an application, such as Excel, and place the cursor where you want scanned data to go. Try scanning again.

***SYMPTOM**: When I scan a lot of bar codes very fast, the scanner locks up and won't work for a few seconds.*

POSSIBLE REASONS	SOLUTION
You are scanning too fast for the Error Proof Protocol to confirm that the mobile computer has successfully received each scan of data.	Wait for the confirmation beep after each scan before you scan a new bar code. You may need to re-scan data that was not correctly received by the mobile computer.

***SYMPTOM**: My mobile computer cannot find the CRS, and/or I get an error message saying that the scanner could not be opened or there are connection problems.*




Scanner could not be opened!
An unexpected error occurred while trying to connect to the Cordless Scanner. Make sure the scanner is on, connectable, within range, batteries are fully charged and Quick connect feature is configured for the Bluetooth stack.
3:08 PM

POSSIBLE REASONS	SOLUTION
You are too far from the Cordless Ring Scanner.	Move the devices closer together, within a range of 10-15 meters.
The Cordless Ring Scanner is not turned on.	Turn on the Cordless Ring Scanner.
You have assigned another device as your favorite or default *Bluetooth* serial device.	Remove any settings that assign another device as your favorite *Bluetooth* serial device. Refer to the documentation for your *Bluetooth* software for instructions.
You are using an XP system without Connect!Agent, and you did not start the *Bluetooth* software.	Start the *Bluetooth* software. Refer to the documentation for your *Bluetooth* software for instructions.
The *Bluetooth* radio of your mobile computer is not turned on.	Turn on the *Bluetooth* radio of your mobile computer. Refer to the documentation for your *Bluetooth* software for instructions.

***SYMPTOM**: While scanning with the CRS, I turned off the Pocket PC, or my Pocket PC entered suspend mode. Now my Pocket PC won't turn on again.*

POSSIBLE REASONS	SOLUTION
This is a known problem with the Widcomm stack (built into HP h221X iPAQ Pocket PCs with ROM version 1.00).	Soft reset the Pocket PC by pressing the reset button.

***SYMPTOM**: While scanning with the CRS, I turned off the host device, or my host device entered suspend mode. Now the CRS won't reconnect to my host device.*

POSSIBLE REASONS	SOLUTION
There is a problem with the Broadcom (Widcomm) stack on some devices where the CRS can be discovered but fails to communicate. Affected units include the HP iPAQ models h221X with ROM version 1.10 and h1945.	Soft reset the Pocket PC by pressing the reset button.

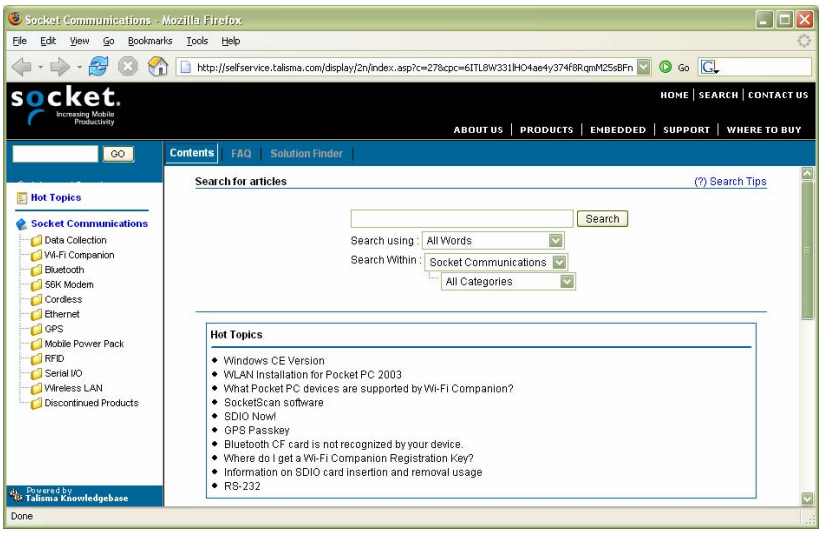
***SYMPTOM**: My Pocket PC shows an error message saying that there are insufficient device resources.*

POSSIBLE REASONS	SOLUTION
Some HP iPAQ Pocket PCs are not compatible with the Socket Mobile Cordless Ring Scanner.	The CRS will not work with your Pocket PC at this time.

APPENDIX G
TECHNICAL SUPPORT

Socket On-Line Support (SOS)

SOS is a virtual technical support assistant that can help you with your product support questions or FAQs. SOS responds immediately to your inquiry, and no product registration is required to use the system.



To access SOS, please visit: www.socketmobile.com/support/faq/

Human Technical Support

If you have trouble installing or using the Socket Mobile Cordless Ring Scanner, contact the Socket Mobile technical support department for assistance.

***IMPORTANT! To obtain technical support, you must first register your product online at* www.socketmobile.com/support/support/new**

After you register your product, log in and click on the Technical Support tab. Click Create New Ticket to submit an online request for technical support. Afterwards, you can log in anytime to monitor the status of your request. If we are unable to resolve your support inquiry online, we can arrange for a technical support representative to call you at a specific time.

LIMITED WARRANTY

Socket Communications Incorporated (Socket) warrants this product against defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase:

EXCLUDES: Consumables such as batteries, removable cables, cases, straps, chargers, and CF-to-PC Card adapters (90 day coverage only)

An extended warranty is available separately for the Cordless Ring Scanner. For more information, please visit: www.socketmobile.com/support

Incompatibility is not a defect covered by Socket's warranty. During the warranty period, Socket will, at its option, repair or replace the defective product at no charge when furnished with proof of retail purchase, provided that you deliver the product to Socket or to an authorized Socket Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket or by Socket's Authorized Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket. Socket will pay surface shipping charges back to any location in the contiguous United States. This warranty applies only to the original retail purchaser and is not transferable.

Socket may, at its option, replace or repair the product with new or reconditioned parts and the returned product becomes Socket's property. Socket warrants the repaired or replaced products to be free from defects in material or workmanship for ninety (90) days after the return shipping date, or for the remainder of the original warranty period, whichever is greater.

This warranty does not cover the replacement of products damaged by abuse, accident, misuse or misapplication, nor as a result of service or modification other than by Socket. This warranty is void if you install batteries into the product that were not supplied by Socket.

SOCKET IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow limitation of implied warranties, or the exclusion or limitation of incidental or consequential damages, so that the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This product may contain fully tested, recycled parts, warranted as if new.

For warranty information, please visit: www.socketmobile.com/support

LIMITED SOFTWARE WARRANTY

LIMITED WARRANTY. SOCKET warrants that the original disk or CD ROM is free from defects for 90 days from the date of delivery of the SOFTWARE.

CUSTOMER REMEDIES. SOCKET'S entire liability and your exclusive remedy shall be, at SOCKET'S option, either (a) return of the price paid or (b) replacement of the SOFTWARE which does not meet SOCKET'S Limited Warranty and which is returned to SOCKET with a copy of your receipt. Any replacement SOFTWARE will be warranted for the remainder of the original warranty period or 30 days, whichever is longer. THESE REMEDIES ARE NOT AVAILABLE OUTSIDE OF THE UNITED STATES OF AMERICA.

NO OTHER WARRANTIES. SOCKET disclaims all other warranties, either express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the SOFTWARE and the accompanying written materials. This limited warranty gives you specific legal rights. You may have others which vary from state to state.

NO LIABILITY FOR CONSEQUENTIAL DAMAGES. In no event shall SOCKET or its suppliers be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use of or inability to use the SOFTWARE, even if SOCKET has been advised of the possibility of such damages. Because some states do not allow the exclusion or limitation of liability for consequential or incidental damages, the above limitation may not apply to you.

EXPORT LAW ASSURANCES. You may not use or otherwise export or reexport the SOFTWARE except as authorized by United States law and laws of the jurisdiction in which the SOFTWARE was obtained. In particular, but without limitation, none of the SOFTWARE may be used or otherwise exported or reexported (a) into (or to a national or resident of) a United States embargoed country or (b) to anyone on the U.S. Treasury Department's list of Specially Designated Nationals or the U.S. Department of Commerce's Table of Denial Orders. By using the SOFTWARE, you represent and warrant that you are not located in, under control of, or a national or resident of any such country or on any such list.

GOVERNMENT END USERS. If the SOFTWARE is supplied to the U. S. Government, the SOFTWARE is classified as "restricted computer software" as defined in clause 52.227-19 of the FAR. The U. S. Government 's rights to the SOFTWARE are as provided in clause 52.227-19 of the FAR.

CONTROLLING LAW AND SEVERABILITY. This License shall be governed by the laws of the United States and the State of California. If for any reason a court of competent jurisdiction finds any provision, or portion thereof, to be unenforceable, the remainder of this License shall continue in full force and effect.

REGULATORY COMPLIANCE

The Socket Cordless Ring Scanner is designed to be compliant with the rules and regulations in locations where they are sold and will be labeled as required. This product is type approved — users are not required to obtain license or authorization before using.

This product has been certified as conforming to technological standards. Therefore, the following actions are punishable by law:

- Disassembly or modification of this product
- Removal of identification labels on the back of the product

The frequency used by this product is also used by industrial, scientific and medical devices, such as microwave ovens, as well as wireless detectors for motion detectors, such as those requiring licenses used on manufacturing lines or similar radio transmitters (all of these wireless devices will be called "other wireless transmitters" below). Most modern electronic equipment (e.g., in hospitals and cars), is shielded from RF energy. However, certain electronic equipment is not.

1. Please ensure that all medical devices used in proximity to this device meet appropriate susceptibility specifications for this type of RF energy.
2. In the unlikely event that there is electronic interference between this system and other wireless transmitters, quickly change the location of operation or stop operating the unit (cease signal transmission).
3. If other electrical interference or related problems occur, contact Socket technical support at www.socketmobile.com/support/support/new

Radio Frequency Interference Requirements

This device complies with part 15 of the FCC rules and Industry Canada Radio Standard RSS 210. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment is also ETS EN300 328, ETS EN301 489-1 and ETS EN301 489-17 compliant. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in

which case the user will be required to correct the interference at his or her own expense.

This equipment generates and radiates radio-frequency energy. To comply with FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: (1) Users are not permitted to make changes or modify the system in any way, and (2) connecting external antennas to the Cordless Ring Scanner is prohibited. This device and its antenna must not be co-located or operated with any other antenna or transmitter. End-users and installers must be provided with installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

To comply with Industry Canada RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: "The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, available at Health Canada's website www.hc-sc.gc.ca/ehp/ehd/catalogue/rpb.htm"

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user may try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the radio or television.
- Increase the distance separating the equipment and the receiver.
- Connect the equipment to an outlet on a different branch circuit than that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet helpful: *How to Identify and Resolve Radio-TV Interference Problems.* This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402.

Radio Frequency Interference Requirements – Canada

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Classe B respecte toutes les exigencies du Reglement sur le Matériel Brouilleur du Canada.

CE Marking & European Union Compliance

Products intended for sale within the European Union are marked with a CE Mark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or ENs are included: Normes (EN), as follows:

Applicable Directives:

- Radio and Telecommunications Terminal Equipment Directive 1999/5/EC
- Low Voltage Directive 73/23/EEC

Applicable Standards:

- ETSI EN 301 489-17 V 1.5.1 (2004-11) – Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific Conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment.
- ETSI EN 300 328 V1.6.1 – Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.
- EN61000-4-2 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 2: Electrostatic Discharge Requirements.
- EN61000-4-3 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 3: Radiated Electromagnetic Field Requirements.

LASER DEVICE:

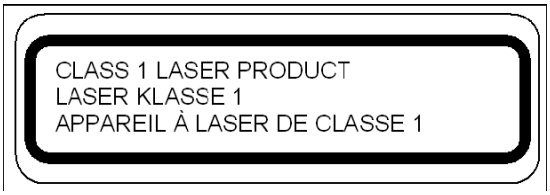
The Socket Mobile bar code scanning product(s) described in this User Guide contain a Symbol SE955 laser scan engine.

For the Class 1 version of this engine, the following applies:

- "Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001. "
- "EN60825-1:1994+ A1:2002 +A2:2001"
- "IEC60825-1:1993+A1:1997+A2:2001"
- "Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure."

A label such as the one below should appear on the end product.

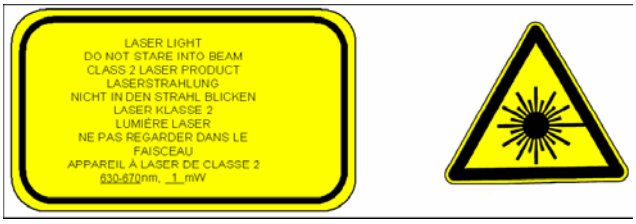


Example of Class 1 Laser Warning Label

For the Class 2 version of this engine, the following applies:

- "Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001."
- "EN60825-1:1994+ A1:2002 +A2:2001"
- "IEC60825-1:1993+A1:1997+A2:2001"
- "Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.
- Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful."

A label such as the one below should appear on the end product.



Example of Class 2 Laser Warning Label

Battery Warning:

- Your device contains a rechargeable Lithium-Ion battery. Never throw the battery into a fire, as that could cause the battery to explode.
- Never short-circuit the battery by bringing the terminals in contact with another metal object. This could cause personal injury or a fire, and could also damage the battery.
- Never dispose of used battery with other ordinary solid wastes. Batteries contain toxic substances.
- Dispose of used battery in accordance with the prevailing community regulations that apply to the disposal of batteries. Cover the metal terminals with insulating tape. (This is to prevent accidental short-circuiting).
- Never expose the battery to any liquid.
- Always keep the battery out of reach of infants or small children.
- Never shock the battery by dropping it or throwing it.
- Dispose of a spent or damaged battery promptly.

Product Disposal

Your device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.

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